

**BUILDING X-79 / HIF
EMERGENCY PLAN**



Issuing Organization: RMMO

Issuing Organization Code: 840

Effective Date: February/2011

Expiration Date: February/2012

**Building Emergency Plan
Building X-79**



National Aeronautics and
Space Administration

_____ Goddard Space Flight Center _____
Greenbelt, Maryland

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Introduction

This document describes the actions and responses required during emergencies affecting the Goddard Space Flight Center (GSFC)/ Wallops Flight Facility (WFF) and Building X-79. All occupants and frequent visitors of this building must be familiar with these procedures to ensure protection of personnel and property.

1. Emergency Notification Systems: How will I know if something is wrong?

GSFC/WFF has developed several methods for communicating emergency information. Emergencies may be localized, such as an injured person, or Center-wide. Report all emergencies by calling 911.

1.1 Alarm Systems

1.1.1 Evacuation Alarms

Buildings at GSFC/WFF are equipped with evacuation alarms. These alarms will sound as a rhythmic 'gonging' alert, a pulsating horn, or loud "clanging" bells, each system augmented by a bright strobe light for the hearing impaired. Evacuation alarms are activated when a flow is detected in the sprinkler system, or a manual pull station is activated. The fire alarm at X-79 is the pulsating horn type.

1.1.2 Local Hazard Alarm

Many areas at GSFC/WFF are equipped with local hazard alarms. These alarms will typically sound as a continuous loud buzzer or horn. A local hazard alarm indicates that an unsafe condition is developing and needs to be investigated by persons familiar with the area and operations. Local hazard alarms are usually activated by smoke detectors but may also be associated with chemical detection systems and special processing equipment

1.2 Other Emergency Notification Systems

1.2.1 Management Notification Process

Notification and direction for special situations are provided via telephone through the Center management structure.

1.2.2 Email Notification

Notification and direction for special situations is provided via e-mail 'blaster.' Email notification is often used in conjunction with the management notification process.

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1.2.3 Verbal Notification

Notification is accomplished through the Building Wardens, and/or safety and security personnel. Verbal notification is typically used when very specific actions are required in a limited area (a single building or part of a building). WFF emergency notifications are also provided via the Base Intercom System. Intercom speakers are located in all general areas and the Integration Bay of Building X-79. Personnel needing to perform such a notification should dial 56 (for the Island), wait one to two seconds, speak their message into the telephone, and hang-up the phone when completed. The NASA Emergency Notification System and ECHO system are two phone/e-mail notifications systems also used at WFF.

2. Types of Emergency Situations: What types of emergencies might occur at GSFC/WFF?

In the event of visible smoke, fire, medical emergency, chemical spill, suspicious package, and a threat of an explosive device, please call 911.

2.1 Fire, Visible Smoke, Sprinkler Activation, or Explosion

There are many potential sources of fire, smoke or explosions. GSFC/WFF has incorporated a number of safeguards against injury of our people into the design and maintenance of our buildings. These include fire sprinkler systems, automatic building evacuation alarms, manually operated evacuation alarms, smoke detectors in special hazard areas, and fire walls. These safeguards limit the ability of fires to spread throughout a building.

2.2 Medical Emergency

Medical emergencies encompass any injury or illness requiring a response.

2.3 Indoor Chemical Spill

GSFC/WFF uses a variety of chemicals and hazardous materials in accomplishing our mission. Safeguards are incorporated into buildings and operations to minimize the potential and severity of an accident. Safeguards include minimizing the quantities of chemicals stored, special storage cabinets, safe handling procedures, and training for users.

2.4 Suspicious Package (possible explosive device or contaminated package/letter)

GSFC's/WFF secure perimeter makes it a difficult target for the placement of explosives. However, packages are discovered onsite periodically that cannot be accounted for (the owner is not known).

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2.5 Threat of an Explosive Device

Threats are generally received by telephone, but may also be received in writing, e-mails or even face-to-face.

2.6 Outdoor Atmospheric Hazard (e.g., Chemical Vapor Cloud)

Outdoor atmospheric hazards can occur from accidental causes or can be intentionally created. The most common causes are accidental releases which may come from a GSFC/WFF operation or from offsite (overturned tanker). WFF Island facilities operations and storage facilities also can contain various types of chemical hazards (i.e. hydrazine). If a leak should occur, you will be instructed by the onsite emergency personnel on evacuation or shelter in place procedures.

2.7 Weather-Related Emergencies

High winds, severe thunderstorms, tornadoes, and snowstorms all create the potential for an emergency situation.

2.8 Other Emergencies

Other emergencies will be planned and briefed as needed per building usage.

3. Occupant Response Procedures: What do I do if something is wrong?

3.1 Evacuation Routes and Assembly Areas

Diagrams showing evacuation routes, primary assembly areas, and alternate assembly areas are shown in Attachment 1 of this document.

3.2 Fire, Visible Smoke, Sprinkler Activation, or Explosion

3.2.1. If the building evacuation alarm sounds or you are told by management or Floor Wardens to evacuate, do so immediately.

- Avoid areas of obvious hazard.
- Know your alternate exit routes.
- Secure critical operations, hazardous materials and classified information.
- Close office doors.
- Report to your assembly area as shown in Attachment 1.
- Provide your management and Warden with information on coworkers that were not in the building at the time of the emergency.
- Remain in the assembly area until released.

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- Do not reenter the building until the on-scene Incident Commander (see 4.4) authorizes reentry.

3.2.2 If you witness a Fire, Visible Smoke, Sprinkler Activation, or Explosion –

- Notify other persons in the area.
- Initiate an evacuation of the building.
- If you have received training in the use of fire extinguishers within the past year, attempt to extinguish small, incipient fires.
- Report information to your building warden and the Incident Commander.

3.2.3 If you witness a fire that has been extinguished –

- If there is visible smoke, leave the area and initiate a building evacuation.
- Immediately call 911 and relay all related information.

3.2.4. Critical Operations –

The facility is equipped with a modern fire detection system that will detect and report alarms to the WFF Fire Department. The facility has been equipped with smoke and heat detectors; smoke detectors are also located in the ventilation system ductwork. Fire alarm pull stations are located at every building exit. Fire alarm strobe lights and warning sirens are located throughout the facility.

Fire suppression occurs from one of three sources:

- The facility has a water sprinkler system located throughout. When sufficient heat from a fire reaches a sprinkler head, water begins to disburse into the area. Release of water through the sprinkler system will activate the fire system pump which will trigger the facility fire alarm.
- The Integration Bay consists of a water deluge fire suppression system. The water deluge system only covers certain areas of the Integration Bay. Activation of the water deluge system is performed by initiating the activation system located in Hallway 122. Activation of the water deluge system will also activate the facilities' fire alarm system. Specific training is required for activation of this system.
- Permanently mounted fire extinguishers are located throughout Building X-79. Fire Extinguisher Training is available from the WFF Fire Department – to schedule training, contact the on-duty Captain by calling extension 1508.

Adjacent to each Integration Bay exit (four exterior and three interior exits) is a red emergency shutdown push button. Upon activation, power is terminated to all non-explosive proof circuitry and equipment located in the Integration Bay (with the exception of explosion-proof lighting, emergency lighting, emergency exit signs, fire alarm equipment, security equipment, and telephone systems). Activation of the emergency shutdown button will also activate the facility fire alarm and shut down the ventilation system.

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The overhead coil-up door between the Integration Bay and the warehouse (Room 121) will automatically close when the fire alarm is triggered. Personnel should avoid using this door as a primary fire exit.

3.2.5 Special Operations – As needed

Due to unique operations and critical activities, there may be employees that will be required to secure hazardous operations or critical activities before evacuating. These may include critical lift operations, hazardous materials processes, etc. These delayed evacuations are addressed in FOM briefing and shall as a minimum follow the following procedures. Persons authorized to delay evacuation to secure operations shall:

- Practice the “buddy system” at all times.
- Ensure that the Incident Commander is aware of their activity and location.
- Immediately evacuate if there is any indication of imminent hazard (e.g., fire or smoke encroaching on their designated area or exit paths).
- Immediately evacuate if the operations they support do not require their presence.

3.3 Medical Emergency

If there is an medical emergency in your area:

- Call 911 for emergency medical assistance.
- Verify that any hazards are controlled or isolated to prevent further injury.
- Provide assistance and information to responders, and
- Once information has been provided, stay clear of the immediate area.

3.4 Indoor Chemical Spill

3.4.1 If an indoor spill occurs:

- Users are authorized to clean up spilled materials when the cleanup can be accomplished within the limits of their personal protective equipment and training. (Chemical users are able to make this determination if they have received specific hazard training on the chemicals they use and the available personal protective equipment.)
- The affected areas of the spill shall be cleared of personnel and isolated from access.
- The spill shall be immediately reported to 911 with all relative information including materials involved, amount spilled, effects on building and occupants, and injured persons.
- Follow the direction of the wardens and emergency responders.

3.4.2 Chemical Alarms – Chemical alarms may be present when specific hazardous operations are conducted (i.e. Hypergols), see specific instructions for more information.

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3.5 Suspicious Packages

3.5.1 Possible Explosive Device – If a suspicious package is identified:

- Clear and isolate the immediate area.
- Call 911 and report all related information.
- Follow the direction of the wardens and emergency responders.

3.5.2 Possible Contaminated Letter or Package – If a suspicious package is identified that may be contaminated with a hazardous or biological material:

- Do not shake or further inspect the letter or package.
- Do not touch, taste or sniff the material.
- Do not move the letter or package around or show it to others.
- If you are holding the letter or package, carefully put it down on a stable surface.
- Leave the area and isolate the area by closing the door or notifying coworkers to stay clear.
- Wash hands with soap and water.
- Call 911 and report related information.
- Provide information to the responders including names of all persons in the area of or having contact with the letter or package.

3.6 Threat of an Explosive Device

3.6.1 If you receive a threat:

- Remain calm.
- Complete the Bomb Threat Instructions form at the back of this BEP.
- Report the threat to 911.
- Relay information to responders and be prepared to be interviewed.

3.6.2 If a threat has been received for your work area:

- Follow all instructions from wardens and responders.
- Relay all information about unusual activities, packages, or persons to the Wardens and Incident Commander.

3.7 Outdoor Atmospheric Hazard (e.g., Chemical Vapor Cloud)

3.7.1 Shelter-in-place – In certain cases, the best course of action to protect building occupants is to shelter-in-place. Building occupants should:

- Follow all instructions from Building Wardens and responders
- Stay indoors
- Stay away from exterior doors

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3.7.2 Special Evacuation Routes – In certain cases, it may be necessary to evacuate personnel by a specific route to prevent exposure to hazards. Building occupants should:

- Follow all instructions of wardens and responders
- Use the routes designated by the wardens and responders.
- Assemble at the locations designated by the wardens and responders.

3.8 Weather-Related Emergencies

In a weather-related emergency, it may be necessary to either evacuate the building, or shelter-in-place until the emergency has passed. Building occupants should follow all instructions from, wardens and responders and other verbal warnings as highlighted in section 1.2.3.

3.9 Other Emergencies

For emergencies not specifically addressed here, building occupants should follow the direction of the wardens and responders.

3.10 Procedures for Persons with Disabilities

X-79 exit doors are either on ground level or equipped with ramps for evacuation for persons with disabilities. Floor wardens will be assigned responsibility to ensure persons with disabilities are provided assistance in building egress (should a person with a disability be assigned to this building).

4. Incident Management Responsibilities: Who will help me?

4.1 Facilities Operations Manager (FOM)

The FOM or his/her alternate has the authority to stop work or to evacuate the building if they believe that a significant danger to personnel or property exists. The FOM (or alternate) serves as the Building Warden, and will appoint Floor Wardens and alternates for all areas.

4.2 Building Warden

The Building Warden is responsible for executing the Building X-79 Emergency Action Plan. One or more alternate Building Wardens shall be designated for when the FOM is absent from the facility. The Building Warden will be stationed at the Primary Assembly Area and ensures that all Floor Wardens have completed their sweeps of assigned areas. An Evacuation Checklist provides an accurate total of personnel remaining in the building and status of warden check-ins. In the event of a fire or other hazardous event which makes the Primary Assembly Area unusable, the Building Warden will relocate to the Alternate Assembly Area as described in Attachment 1. The Building Warden serves as the only direct link to the onsite Incident Commander and provides status reports to the Incident Commander based on information received from the Floor Wardens during all evacuation operations.

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4.3 Area Wardens

Floor Wardens and Area Wardens are normally assigned to designated parts of the building and are directly responsible for that area in the event of an emergency. Distinctive badges worn during evacuation operations identify the wardens. During an evacuation, the wardens are responsible for ensuring that all personnel in the area under their control are evacuated, including personnel who need assistance. Floor Wardens will report to the Building Warden when their respective areas are clear, addressing number of personnel remaining (see 3.2.4 and 3.2.5), rooms occupied, and any special circumstances. If Floor Wardens have any additional information with respect to the cause of the building evacuation, they should relay that information to the Building Warden as well. They then proceed to their respective assembly areas and assist with crowd control.

Area Wardens or designated personnel may be required to perform a sweep of the building at the Building Warden's request. A two-person team is required for all 'sweep' operations and for the recovery of personnel awaiting assistance in designated Refuge Areas. Trained responders from the Incident Command Post (see 4.4) may carry out the above operations.

See Attachment 2 for Building Area Warden assignments and responsibilities.

4.4 GSFC/WFF Wallops Fire Department

The Wallops Fire Department provides on-site Incident Commanders for all emergencies. A Wallops Fire Department vehicle on scene with an identified firefighter (indicated by red helmet) becomes the NASA/GSFC/WFF Command Post for the incident, and the ranking on-scene Firefighter becomes the Incident Commander. The Incident Commander always stays at the Command Post vehicle during the emergency.

4.5 Facilities Management Branch (FMB)

FMB provides service for sprinkler systems and the fire/smoke alarm systems, and controls HVAC systems. The Wallops Fire Department operates the Emergency Console. The Emergency Console receives all emergency calls and makes the proper notifications. The console is the central point for all WFF radio communications. The Emergency Console remotely monitors all fire protection systems (fire detection and sprinklers systems) to initiate proper response to alarms and ensure they remain in service.

4.6 Additional Support Organizations

The Accomack County Sheriff's Department, Va State Police, Va. Marine Resources Commission and the Chincoteague Coast Guard, all provide emergency services in accordance with individual agency

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responsibility, authority and interagency agreements. Under certain conditions, any of the above could be asked to provide real-time assistance to the GSFC/WFF On-Scene Incident Commander.

5. Review and Validation

This document shall be reviewed and reissued annually according to configuration management procedures. If no changes are needed, it needs only a new approval signature and dates.

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BUILDING WARDEN EVACUATION CHECKLIST

Date of Evacuation: _____ Building Warden: _____

Start Time: _____ Evacuation Complete: _____ hrs.

- Type of Evacuation:
- | | |
|---|-------------------------------------|
| <input type="checkbox"/> Evacuation Drill | <input type="checkbox"/> Flooding |
| <input type="checkbox"/> Fire Evacuation | <input type="checkbox"/> Bomb Alert |
| <input type="checkbox"/> Smoke/Fumes | <input type="checkbox"/> Other |

Floor Warden Check-in:	Evacuation Complete Yes/No	Personnel Remaining	Location
High Bay			
Low Bay south			
Low Bay north			
Sweep Team (as required)			
Total Personnel Remaining in Building ____:			

Remarks/Notes: _____

Please return completed form following any evacuation to:
Code 803.2 Safety/ Kenneth.e.volante@nasa.gov (757-824-1159)

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FLOOR WARDEN EVACUATION CHECKLIST

EMERGENCY EVACUATION	REENTRY PROCUDURES
<ol style="list-style-type: none">1. Ensure that all personnel evacuate your area of responsibility and leave the building.2. Use stairwells, not building elevators.3. Report to the Building Warden in the lobby and assist in crowd control.4. Assist personnel to an approved "Refuge Area" or out of the building to an evacuation assemble area.	<ol style="list-style-type: none">1. Reenter only when directed by the Building Warden.2. Return to assigned work areas.3. Survey the area to ensure nothing is missing.4. Reestablish normal interfaces.

CRITICAL OPERATIONS OR SPECIAL OPERATIONS

1. Perform an orderly "Pre-evacuation," i.e., a reduction of personnel in affected areas of the building.
2. Direction will be given by the Building Warden.
3. Assist personnel to an approved "Refuge Area" or out of the building to an evacuation assembly area.

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Bomb Threat Instructions



REPORT ALL BOMB THREATS IMMEDIATELY BY DIALING "911."

DON'T PANIC!!

1. Exact initial words of caller:
2. Specific questions: (Record answers exactly as spoken by caller)
 - a. Where is the bomb?
 - b. What time is the bomb set to go off?
 - c. What kind of bomb is it? What does it look like?
 - d. Who do you represent? Who are you?
 - e. Why did you place the bomb?
 - f. Did you know there are innocent people in the building who may be killed or injured?
 - g. Please repeat what you've told me to make sure I understand you:
3. Exact closing words of caller:
4. Time caller hung up:
5. Description of caller's voice:
 - a. Familiar? Yes _____ No _____
 - b. Male _____ Female _____
 - c. Young _____ Middle Aged _____ Old _____
 - d. Voice Pitch: High _____ Med _____ Deep _____
 - e. Accent _____ Ethnic _____ Regional _____
 - f. Impediment? _____ (describe) _____
6. Your name and position:
7. Your location/address _____ Bldg. _____ Room _____
8. Phone number on which call received: _____ Date/time of call: _____

REPORT ALL BOMB THREATS IMMEDIATELY BY DIALING "911."

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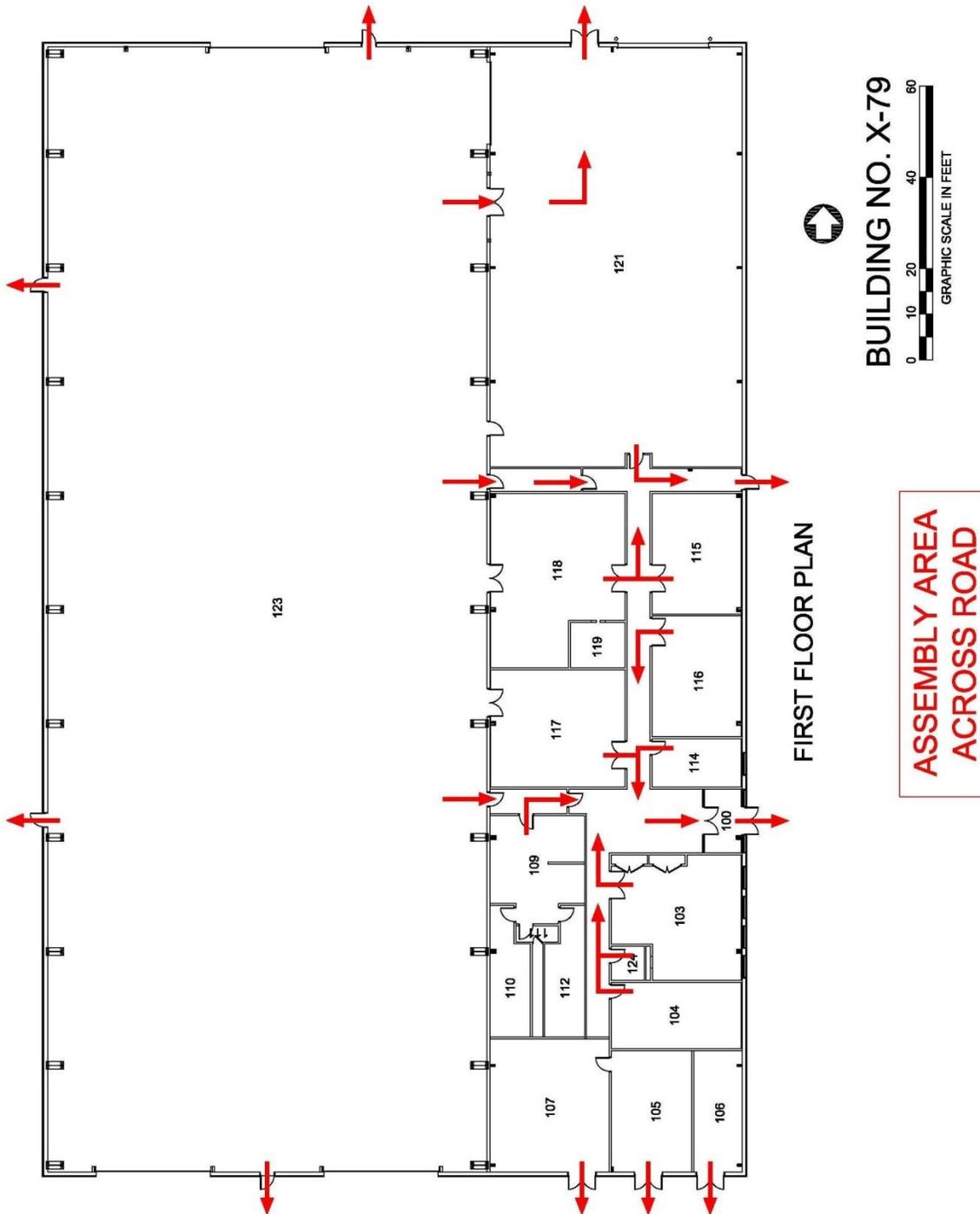
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Attachment 1



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Attachment 2

BUILDING X-79

AREA WARDENS AND ALTERNATES

X-79 FLOOR WARDENS – assigned on an as needed basis per project

X-79, FACILITIES OPERATIONS MANAGER – Larry Duffy

// Original Signed // 3/2/11

Larry Duffy Date
Facilities Operation Manager / X-79

Concur:

// Original Signed // 3/2/11

Kenneth E. Volante Date
Safety Point of Contact