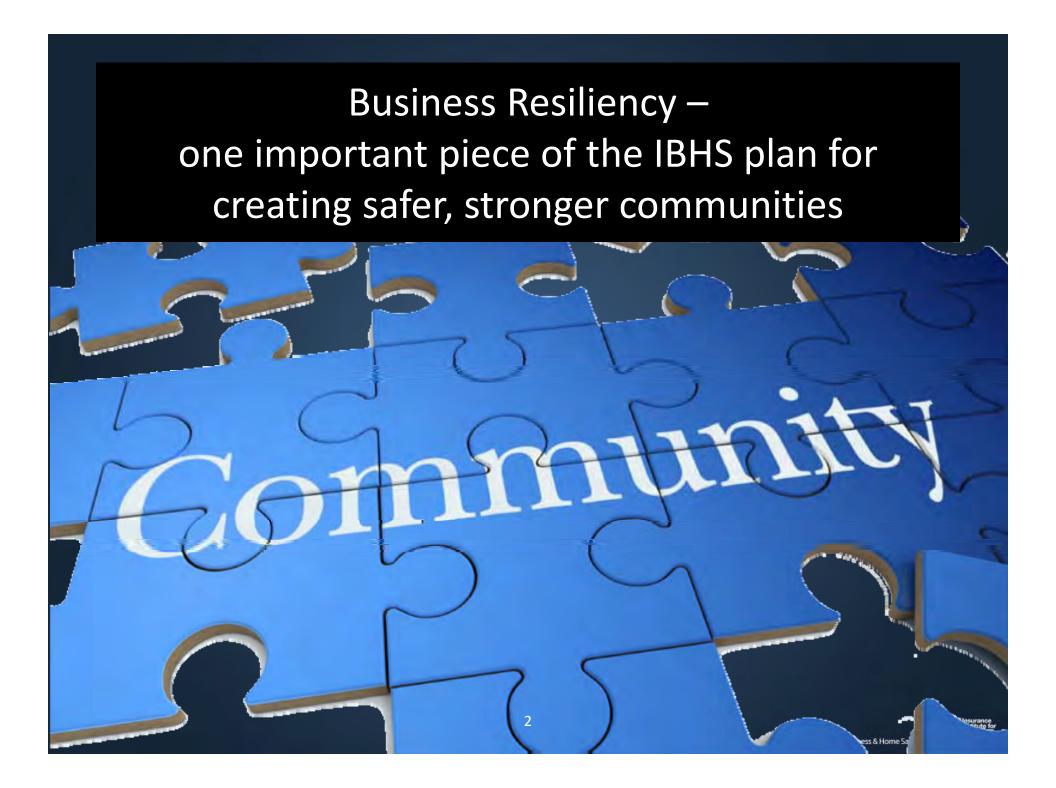


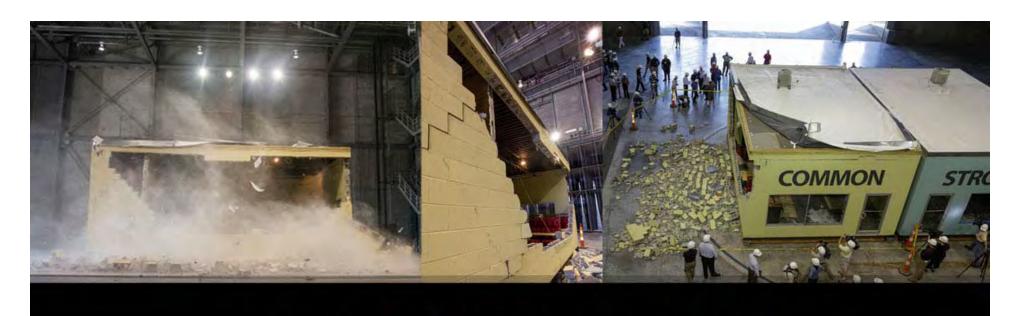
Building Economic Resilience to Disasters: Developing a Business Continuity Plan

March 31, 2014
Gail Moraton, CBCP
Business Resiliency Manager









Result: \$44,769 vs. \$4,660



2012 High Wind Commercial Test

Links to videos:

http://vimeo.com/45920765#at=0

http://vimeo.com/45921239#at=3

Hail – A Persistent Cause of Loss







Manufacturing Realistic Hailstones

Link to video

http://vimeo.com/60100334

2013 Hail Demonstration

Link to video

http://vimeo.com/60091069

1 in 4 businesses forced to close after a disaster, never reopens.



If today were ...

- Sunday, October 28, 2012
 Hurricane Sandy
- Sunday, August 23, 1992

Hurricane Andrew

Saturday, May 21, 2011

EF5 Tornado in Joplin, MO

Wednesday, January 8, 2014

WV Chemical Spill

Monday, January 27, 2014

Atlanta's Snowpocalypse

Natural Disasters Wreak Havoc on Small Businesses

- Majority of small businesses operate from a single location, making them more vulnerable compared to larger companies
- Between 60,000 100,000 small businesses were negatively impacted as a result of Hurricane Sandy
- Median cost of downtime for a small business due to extreme weather is \$3,000 per day
- 1/3 of small business owners have been personally affected by extreme weather

Natural Disasters Wreak Havoc on Small Businesses

- 57% of small businesses have no disaster recovery plan, and of those that do have a plans, 90% spend less than 1 day per month maintaining them
- Sandy cost 86,000 jobs in November 2012 manufacturing, retailing, leisure & hospitality industries particularly hit
- Sandy cost the economy more than \$50 billion the most expensive disaster globally in 2012

What is Business Continuity?



Benefits & Value of Business Continuity Planning

- Safeguard human life
- Save property & resources
- Reduce time making critical decisions
- Recover business functions quicker
- Shorten the recovery window
- Ensure customer services & confidence
- Ensure job security
- Increase employee confidence & morale
- Retain share of market



Hazard & Vulnerability Assessment – Know Your Risks

Frequency – The likelihood that the event will occur.

Severity – The amount of damage the event is capable of causing your business.









NATURAL

- Earthquake
- Tornado/Wind
- Hurricanes
- Floods
- Volcanic Eruptions
- Severe Winter Weather
- Wildfire
- Drought
- Sinkholes

POLITCAL

- Strikes
- Riots
- Civil Disturbances
- Bomb Threat
- Biological Threats
- Nuclear Threat
- · Acts of War

MAN-MADE

- Sabotage
- Product Tampering
- Scandal
- Workplace
 Violence
- Sexual Harassment
- · Fraud / Theft
- Arson
- Terrorist Attack

TECHNOLOGICAL

- Software Failure
- Hardware Failure
- Power Outage
- Data Corruption
- Cooling System Failure
- Wiring and Cables
- Mechanical Systems
- Communications

SECURITY

- Privacy
- Viruses
- Hackers
- Data Theft
- Counterfeiters
- Cybercrime

ACCIDENTS

- Human Error
- Fires/Explosions
- Water Damage
- Building Collapse
- Environmental
- Contamination

LOSS OF:

- Key Employee
- Senior Leader
- Subject Matter Expert
- Key Supplier/Vendor
- Premises
- Key Equipment

OTHER THREATS

- Pandemics
- Gas/Water
 Shortage
- Media Crisis
- Special Events
- Mismanagement
- Product Liability



Flooding

- Apply waterproof coating to exterior walls.
- Seal wall penetrations including where utilities enter the building.
- Anchor fuel tanks and other storage tanks to prevent flotation.
- Check gutters & downspouts that they are not blocked by debris.



 Keep vines of exterior walls to avoid cracks in siding.

Wind, Hurricanes & Tornadoes

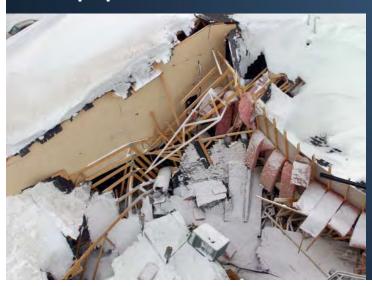
- Remove loose objects and accumulated debris from roofs.
- Keep trees and branches at least 7 feet away from exterior building surface.
- Secure garbage cans, outdoor furniture, signs, awnings and tools & replace gravel/rock landscaping with shredded material - they can become windborne debris.



 Equip roll-up and overhead doors with wind locks.

Severe Winter Weather

- Safe snow removal may reduce the snow load on your roof.
- Make sure gutters, fasteners and downspouts are secured.
- Caulk openings on exterior walls & insulate all accessible pipes.

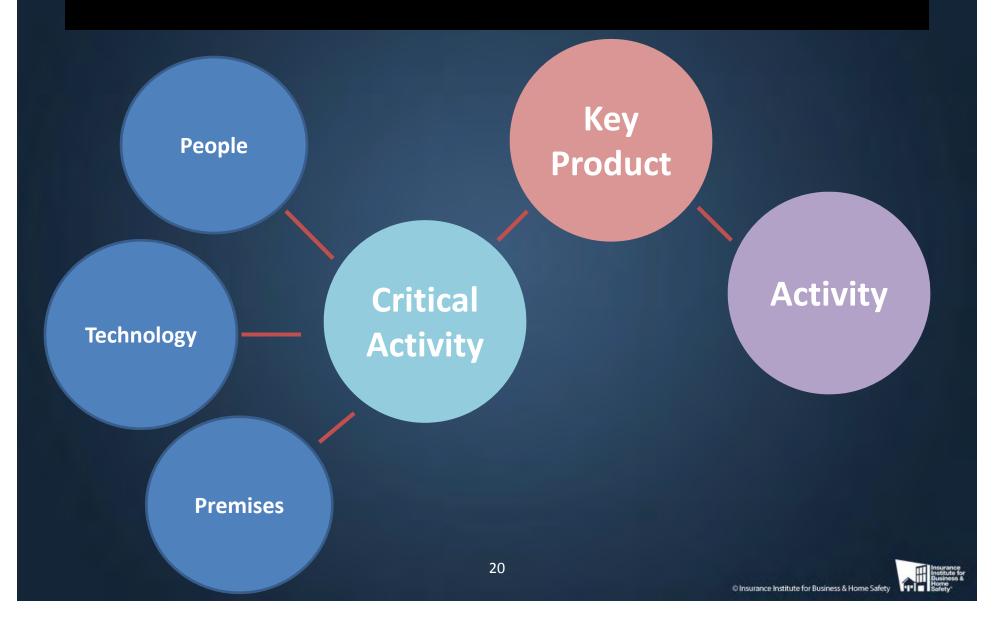


 Have a snow removal plan to provide safe access for employees, customers and suppliers.

Gathering Information

ADMINISTRATION ACCOUNTS PAYROLL PAYABLE BENEFITS PURCHASING PAYROLL MAILROOM SALES & SHIPPING RKETING F

Know Your Operations

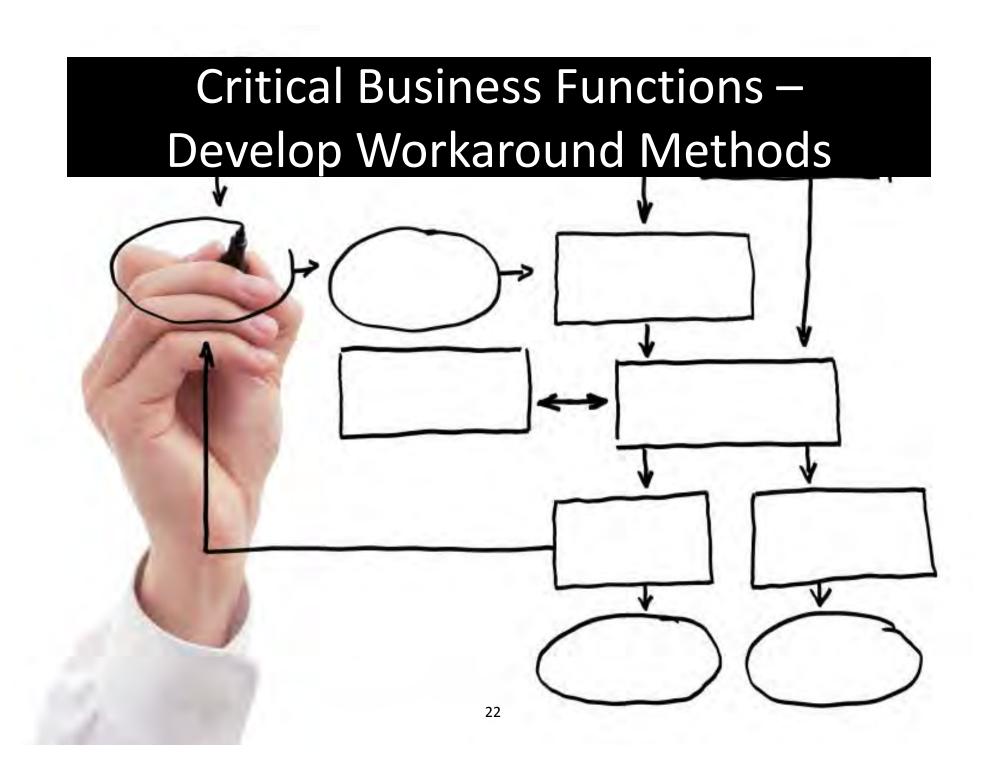


Know Your Operations including Your Supply Chain

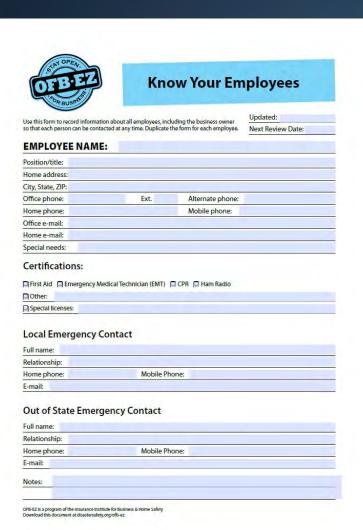








Know Your Employees





Know Your Key Customers, Contacts, Suppliers & Vendors



		11-1-6-6
Use this form to record informat alternate choice and your key cu		
	and contacts, supricute the form of each contact	Next neview Date.
CONTACT TYPE:		
Current Supplier/Vendo	or Back-Up Supplier/Vendor	Key Customer/Contact
Company /Individ	ual Name:	
Account Number :		
Materials/Service Provided	d:	
Street Address:		
City, State, Zip:		
Company Phone:		
110 1 10		
Website: Company Represe	ntative	
Company Represe	entative	
Company Represe Primary Contact: Title:	entative	
Company Represe Primary Contact: Title: Office Phone:	entative	
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Have a Communication Plan for Your Employees



- o Landline
- o Mobile
- o Text
- o Email
- Call-in Number
 - Employee Emergency Wallet Card
- Social Media (Facebook, Twitter, LinkedIn, etc.)
- Company Intranet
- 3rd Party Emergency or Mass Notification
 Systems

County Emergency Information





















Have a Communication Plan for Customers, Suppliers & Key Contacts

Customers

- Sign on business door
- Updates on Company website
- Provide status of pending orders, delivery schedules, alternate arrangements

Suppliers & Vendors

Arrange alternate delivery methods

Creditors

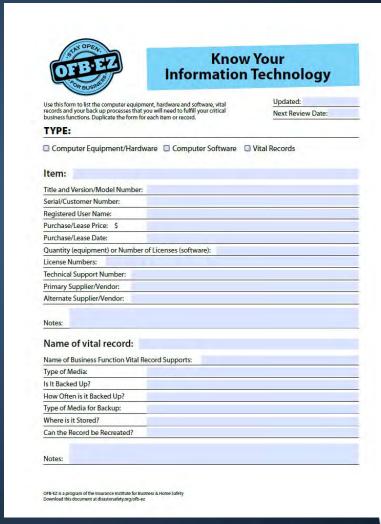
Payment arrangements





Know Your Information Technology & Vital Records







Know Your Finances





Know Your Finances

Use this checklist to consider and plan for your business' financial needs in the event of a disruption.

Updated: Next Review Date:

Overall Business Needs

Have you worked with your bank to set up a line of credit for your company?

Who is responsible to activate it and who has access to it?

How much cash would be needed to survive a 3-day, 5-day, 10-day, or longer shutdown?

For what purpose is the cash needed?

Will you have that cash on hand?

Who would make the decision to utilize the cash?

Who would have access to the cash?

Do you have sufficient cash to pay for various additional services that

might be needed, such as janitorial or security services?

Do you have a company credit card that could be used for emergency purchases?

Who is authorized to use the credit card?

Will you be able to pay your bills/accounts payable?

Do you have procedures in place to accommodate a business disruption?

Will you be able to continue to accept payments from customers/accounts receivable?

Do you have procedures in place to accommodate a business disruption?

Have you identified an alternate location where you can work?

Human Resources

In the event of a widespread disaster, how will payroll be handled?

If your business is forced to shut down temporarily, will some or all employees continue to be paid?

For how long?

Will they be able to use their sick and/or vacation time without restriction?

Are there union considerations?

Have your employees been made aware of your policies that will be in place during a disruption?

If banks are closed, will your business provide payroll-cashing services?

What is your business' policy on cash advances, check cashing, and employee loans?

Will your employees be expected to work overtime?

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Project: An assignment w/ a start and end

Ongoing Process

Know When to Update Your Plan

- Have my business' risks or hazards changed?
- Has my business added new departments, products, or services?
- Have the priority levels of my documented business functions changed?
- Has my business added or changed any suppliers/vendors, key contacts or key customers?
- Is the contact information up-to-date for existing suppliers/vendors, key contacts and key customers?
- Have I updated information on specialized equipment needed to resume each business function?

Know When to Update Your Plan

- Have there been any staffing changes?
- Does my company telephone call list need to be updated to reflect new staff personal/emergency contact information?
- Are the right responsibilities assigned to the right staff?
- Can I put in place any new protection devices, safeguards or procedures to reduce my business' risks and hazards?
- Are work-around or secondary methods written and documented in a manner that my employees can understand and act on them?
- Have I reviewed my insurance coverage with my agent?

Know When To Test Your Plan



Know When to Test Your Plan Table Top Exercise: Power Outage Scenario

It is a hot, rainy Friday morning. The current time is 11:30 AM. Suddenly, the lights go out and all of the computers, printers, and copiers turn off. For a few seconds, there is silence before the chatter begins to pick up. One of your emergency lights comes on, but the rest are not working. While many of the offices have windows to provide minimal light, the majority of the hallways and interior rooms are left in the dark.

 Take the first 10 minutes to discuss what you will do next.

It is now 1:00 PM and the lights still are not on. The building HVAC has been off now for 1 ½ hours and the temperature inside the building is gradually becoming unbearable. Your entire power grid is without power. There is no word from the electric company about restoration of power.

- 2. Now what are you going to do?
- Is your technology/computer room being dealt with? By whom?
- Has someone turned off all computers, printers, and equipment to prevent electrical surge when power is restored?
- Is your phone system down? How are you going to manage the phone lines?

It is now 2:00 PM. Employees are asking if they can leave early. The word around town is that the power might not be restored for several days.

- 6. How will you communicate this message? What instructions will you convey to your employees? Customers? Vendors?
- Are you going to declare a disaster in order to activate your business continuity plan?
- Continue your discussion with the following questions:
- How are people within the organization communicating with each other (e.g., sending and receiving messages, information, and response details)? How are they communication with other stakeholders (e.g., your customers and clients, the media)?
- 10. Is there a pre-determined and agreed upon central meeting place for company leaders, management, and employees?
- 11. Is there a copy of your business continuity plan that you can easily retrieve?
- Are there any business processes for which there are manual workarounds? If so, discuss how that would happen.
- How would you find an appropriate place to operate from for the remainder of the day?
 For the next one or two weeks, if necessary?
- Have you begun an assessment that includes an evaluation of the status of employees, customers, operations, and external utilities?
- 15. How would you ensure that customer concerns are managed?
- 16. Have you begun to determine how much data was lost and how that will affect your operations?
- Some employees are asking, "How will I know if I should come to work Monday?"



Know When to Test Your Plan Table Top Exercise: Power Outage Scenario

It is now 7:30 AM on Monday, three days later. The power is still out and the Health Department has determined that 'no building without running water can open for business." Clients are calling and the company voicemail system is full. Employees are texting the Human Resources Director asking for guidance.

18. What do you tell them?

Exercise Debrief:

- 19. What is missing from your plan?
- 20. What worked well in this scenario?
- 22. What could you do differently next time
- List the actions you will take to improve your plans.

Exercise Wrap Up:

This completes the exercise. In order to maximize what can be learned from this effort, have all participants write down their thoughts and concerns. You can address these and the debrief issues at future meetings.

Exercise Date:
Next Exercise Date:

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Test your Plan with Various Types of Exercises

- Scenario-Based Tabletop Exercise
- Building Evacuation Exercise
- Notification Exercise
- Alternate Site Exercise



- Full Activation Exercise
- Pandemic Tabletop Exercise
- Work-from-Home Plan Exercise

Know Where To Go For Help





Know Where To Go for Help

Your relationship with your community and outside agencies can strengthen your ability to protect your employees and property and return to normal operations. Maintain a channel of communication with community leaders, public safety organizations such as the police, fire and emergency medical services, government agencies, utility companies, and others. Working together with outside agencies can be beneficial because they can provide a wealth of information to help you recover quickly from a disaster.

Refer to the resources below for more information about implementing disaster safety recommendations to help you prepare for and recover from natural or other types of disasters.

Insurance Institute for Business & Home Safety

In addition to providing this free business continuity tool kit, IBHS provides free disaster preparedness and property protection guidelines, recommendations and projects for small businesses. The institute also offers post-disaster recommendations on repairing and rebuilding to make your building(s) stronger and safer the next time a disaster strikes.

http://disastersafety.org

American Red Cross

Among other disaster preparedness and response services, the Red Cross offers a number of preparedness training programs and resources for workplaces, families, and individuals.

www.redcross.org

Business Civic Leadership Center – Disaster Help Desk

The BCLC Help Desk is designed to enhance community economic recovery after a disaster. The Help Desk provides on-the-ground coordination of information among businesses, local chambers of commerce, NGOs, government responders, and disaster recovery specialists.

http://bclc.uschamber.com/site-page/disaster-help-desk-business

DisasterAssistance.gov

Provides information on how you might be able to get help from the federal government before, during and after a disaster. If the President of the United States makes help available to individuals in your community after a disaster, you can visit this site to apply online.

http://www.disasterassistance.gov

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Federal and Local Emergency Management Agencies

Even the largest, most widespread disasters require a local response. Local emergency management programs are the core of the nation's emergency management system.

http://www.fema.gov/regional-operations/state-officesand-agencies-emergency-management

Internal Revenue Service-Disaster Assistance and Emergency Relief for Businesses

The IRS offers audio presentations about planning for disaster. These presentations discuss business continuity planning, insurance coverage, record keeping and other recommendations for staying in business after a major

http://www.irs.gov/Businesses/Small-Businesses-&-Self-Employed/Disaster-Assistance-and-Emergency-Relieffor-Individuals-and-Businesses-1

Small Business Administration

The U.S. Small Business Administration provides loans, loan guarantees, contracts, counseling sessions and other forms of assistance to small businesses following a disaster.

http://www.sba.gov/ http://www.sbaonline.sba.gov/services/ disasterassistance/disasterpreparedness

Small Business Development Centers

The SBDC assists small businesses with financial, marketing, production, organization, engineering and technical problems, as well as feasibility studies.

http://www.sba.gov/content/small-businessdevelopment-centers-sbdcs http://www.asbdc-us.org/



Additional FREE Resources









Big Business - Small Business Emergency Management Mentorship Program

> Helping Small Businesses Prepare, Prevent, and Respond to Emergencies

Insurance will Help you **AFFORD** to Recover

- Business Income & Extra Expense
- Contingent Business Interruption
- Supply Chain
- Services Interruption/Off Premises Power
- Interruption by Civil or Military Authority



- Extra Expense
- Equipment Breakdown
- Cyber Risk
- Key Man



Common Excuses for NOT Planning

- We thought it would never happen to us
- We had more important things to think about
- We thought we were too small to need a plan
- We backed up our computers and thought that was enough
- We didn't know where to go for help
- We thought we had no risk
- It takes too much time
- It takes too much money



Choosing your Business Continuity Planner



Paper Plans Still Important

How important are paper-based BC plans?

55.6% Essential

24.8% Quite Important 19.7% Not Important

- As backup in case electronic copies are unavailable. Conversely, electronic versions should be available as backup to paper copies. Neither is "better" than the other on their own.
- No electricity no computers no business. Hence, paper copies of the BC plan as reference documents are very important.
- Have various copies in all media formats. Paper copies at work, home, trunk of car, including copies in the cloud, company server, etc.

Continuity Central Survey - August 2013





Promote Employee Awareness

- Business Continuity Facebook page or on Company Intranet
- Newsletters featuring BC articles
- Lunch-n-Learn meetings
- Posters & Flyers
- Contests
- Training Videos
- Preparedness Campaigns
- Email Reminders & Alerts
- Business Continuity Day





Promote Personal Preparedness

Basic necessities - download a copy of the Recommended Personal Emergency Preparedness Supply List (ready.gov)

 Contact information for family members, neighbors, doctors, dentists, utility providers In the event of an emergency, you

should store at least one gallon of

r per person per day. This single of water will hopefully get you



- Copies of important documents (birth certificates, marriage license, insurance policies, medical history, etc.)
- Create a plan using a free online tool and/or mobile app

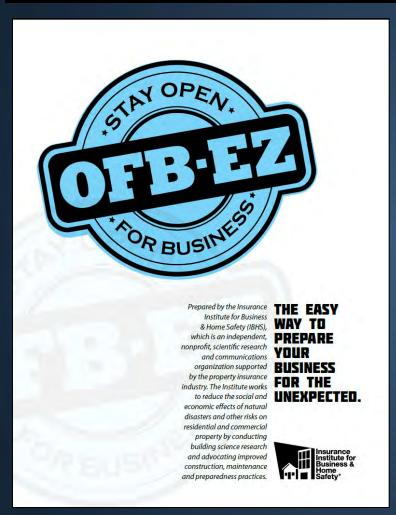
Avoid Business Continuity Pitfalls

43

- Closely-Guarded Secret
- Outdated
- Lack of Buy-In
- A Book of Lists
- Not Prioritized
- Untested
- Based on a Specific Scenario



Disaster Planning Made Easier



DisasterSafety.org/open-for-business



















www.DisasterSafety.org

Where building safety research leads to real-world solutions.

Risks FORTIFIED

Commercial Public Policy

Research

Media Center

Blog

Videos

Members-only

Earthquake

Flood

Freezing Weather

Hail

High Winds

Hurricane

Lightning

Tornado

Wildfire



BLOG



Twelve Ideas for Better Protecting Your Business

FREEZING WEATHER



Preventing Frozen Pipes
Frozen pipes are one of the biggest risks of property



Commercial Maintenance



Proper Maintenance and Timely Repairs: How to Protect Your Business from Storm Damage

We've all hourd the agreement metric care of your body and your body will take core of your "As a historic aw you should apply this skisten to your commercial fluiding and the particular coolinal it. While it is assy to see physical domage that can be coursed by larger treats. Mother historie also is showly and consistently levelung down your suitchings alleriness acquires frume weather conditions. The specific weather conditions were building is exposed to, coupled with your multistenance plan, play a large part in the strength and longer by x? your building and your resulting bottom line.

Here are a few examples of severe weather conditions that can damage properties:

- Expansion and contraction due to seasonal temperature swings and dolly temperature fluctuations can create leaks in sealants, gaskets, and some building materials.
- · I/V exposure from sun, as well as snow, rain, drought, hall and smog, can dequade mots and wall systems
- Sait sprays in coastal locations can corode various metals; acid rain in northern ineastans after earn unity

STAYING A STEP AH

it's important periodically to a buttom, and quickly inspect fo storm. A thorough impaction ground water dramage syst building penetration seals o and the perimeter grounds. times to get outside to lide printings storms prior to the n

The roof is your building's first hazards; it's also the most vulrepeatedly expensed to weaths contribute to decay and deter the useful life of your roof. Ex secognitie and address stores "Protection from the Top. The Cover Maintenance and Reps



Commercial Generators: An integral part of any business preparedness plan

· How often does the business lose power and for how

. What are the most likely sources of power outages?

The Open for Susiness* vulnerability assessment will halp you to identify the events that could insample business operations. These factors will help to

distamine the size and type of generator to buy. One thrushold question facing the business owner is whether

to purchase a portable or track up generator or to choose a

permanent or stand-by generator. A portable generator is a militively small muchine, which is usually rated no higher than 15 kilowatts and 240 volts, and is intercled to be moved and

Is allowed and 249 year, and is instructed to be inclosed and activated for interpropary use at a factority where stelling special electric power is not evaluable. A standing generator, in conteat, it a book us selected system that is permeassed years for conteat, and may openite automatically though the use of a manufar within which sense a power loss, commands the generator to start, and their transfers the selected electrical load to the generator.

FACTS ABOUT PORTABLE GENERATORS

Power outages resulting from ungreatizable weather, man-made de natural discisses, or iste-specific events can disrupt your bouleast operations. The insurance in stitute for flushess is those Sofety's (Bit Open for Business' Program in a comprehensive dissurance planning tool to usual your in reducing the patrential for less and recovering quickly should a discister strike, mannative what the cases.

One important consideration as you develop your business continuity plan is the purchase, operation and maintenancy of a generative. This foll-back too devables you to continue operating some or off of your electricies represent and light in an imminist because a certaingulant. This most will provide hasts information about generative plant in one of the provided to due to compete history business and provided to the competence of the provided in the provided to the competence of the provided in the provi

Generators are an integral part of the preparedness planning process for businesses of every size and car greatly reduce business danaption when cornal power is interrupted. At the came lefter, using a generator power outside risks that must be addressed for sale speciation, including line, damageto electrical equipment and even injury or death to those operating the generator or working in the building where it is being used. Proper ventilation is a critical element for reducing the risk of carbon monoxide positioning from a generator's

In addition to safety concerns, proper maintaneous is critical to avoid the failure of a generator when it's needed most.
The time to maintain a generator is well before a major storm or disaster strikes, when professional assistance may stoms of disaster attrike, when professional assistance may be envirabilità, proven lines are along and access rauda are bisicilad. To gath the goadest boshwas continuity benefits, while minimizing associated riche, it impercipant to purches a quarusers that is procurly designed and sized for your business, ended. Dross participated and proceeply entailed, pur procedure in place to ensure regular maintenance and that all right operating practices are eliberted, features and talk all right operating practices and eliberted, features and talk all right operating practices are eliberted, features and talk all right operating practices are eliberted, features and talk all right operating practices.

CHOOSING A GENERATOR

Buttere purchasing an electrical power penerator, comission what electrical equipment that must be operable when normal power is interrupted. Other considerations include:



In 2011, only unovatarms in the East and What cough's many business comen by sepri Autumn on the best time for businesses no beginn preparenting for the arrived of fineering. The temperatures, worder only for that may be design prepared property and fineering with duity operations. Miller full temperature in make a resize to impact you premise and conduct routine maintainance and impact, which can help prevent costly disnage and

The following checklist from 1845 will help you identify your winter weather mainten regain priorities and includes Bries to articles that provide greater detail about specifi



S AND GUTTERS

businesses from Anizona to New England, Fall is a good time to have your roof inspected to find out if it's adequately designed to withstand the snow falls that can realistically be expected in your area. A structural originear can determine the maximum loads your roof can withstand, as well as provide practical solutions to improve roof strength, Learn more about preventing roof collapse at disasterusing prog/franzing weather/

Inspect gutter hangers, spikes, fasteners, seems, guards and downsports, for sectarement. Heavy snow or ice can cause gutters to weeken and stry, leading there to least away from the building and allow



Find our how strong year roof is and its capacity for asove.

Begord snowled from the propriet of the property of the materials is total above businesses from Arizona to New England, Fall is a send and to the backs on the part. them to detach and increase the The most effective way to clear of the tool kits available at hard greatly reduce the labor awole

Don't let severe winter

in a deep freeze!

weather put your business

☐ Take action to prevent for Dar Take action to prevent for Car ice dame are ridges of ice that is so derive are ridges of ice that is soof or around drains and preve draining off the roof. The water this "dam" can leak into the build to walfs, callings, insulation and ice dam prevention involves sec heat sources that are installed is inder the roof and/or inco sinder the mod and/or increasing to place or actic ceilings, in the owners should create and imple maintenance plan that evolves the roof drainage system for producing, scoppers, gotters and do any obstructions that can lead a more about preventing ceiling the dam.

Even though most between a commit appeale without while recents and crinical leaburation, much of which is created and recorded electronically, many behaviors are many any electronic where the information it depully located and stock abone business as also may have any or than created and international subjectly located and stock abone business also may have any or than created and historical documents that are not prevailed in in page 16 mil. Historical process planning, those viral record may be desirable of both the term at warefore notes a total adultate staked. Also odden, the less of stitud data and information heige accommence activity in a standard and alternating can cause the beausest of last. This serforms in the eart to have graves in allow or brook and derivative and the state of last. This serforms in least to have grave in allow or brook and entered and earth or and the state of the serforms and the serforms and the contract of the serforms of the and the serforms and the serforms of the serforms are serforms and the contract of the serforms of the serforms and the serforms are the serforms of the serforms and the serforms are the serforms of the serforms and the serforms are the serforms are the serforms and the serforms are the serforms are



How to Navigate Stormy Weather: EMERGENCY PREPAREDNESS AND RESPONSE PLANNING

MANY BUSINESSES ARE NOT PREPARED TO RESPOND TO A MAN-MADE OR NATURAL DISASTER. STATISTICS SHOW THAT, OF THE BUSINESSES THAT CLOSE BECAUSE OF A DISASTER, AT LEAST ONE IN FOUR NEVER REOPENS, SMALL BUSINESSES ARE PARTICULARLY AT RISK BECAUSE THEY MAY HAVE ALL OF THEIR OPERATIONS CONCENTRATED IN ONE LOCATION THAT IS DAMAGED OR DESTROYED. THAT

Data Protection: A

Protection

Vital Part of Business



s and many other types of natural hazards can ranced notice and be tracked, which allows for ne properedness planning, But own if that is not number of the steps identified here will help ir business more resilient and bettur able to

THE NEED FOR PLANNING

Many situations can wreek house on IT systems, often resulting in time consuming and difficult attempts to re-create the stored information. Even if the Inability to access data is temporary, if could reduce your competitive edge, tempted your reputation and result in the loss of new and existing customers.

WHY YOUR SYSTEM IS AT RISK

Your hustness continuity plan should include steps to protect and/or back up all aspects of the IT system, including hardware, software, data and connectivity. Officeant hazards may target different parts of an IT system;
It is important to consider everything from a brief power inserruption to the physical destruction of the facility.

HELPFUL DEFINITIONS

Hardware: perginaral devices such as monitors, printers, scanners, external hard drives, and keyboards.

Software: programs that enable applications to nin or operate

Data: Information stored and saved on your computer such as files, hilders, and multimedia.

metrity; movement of data from one source to another uding weeks companing, network or cable lines and neckens

POWER DISRUPTIONS

The interruption of the passer supply can take on many forms surps, sprike, brownouts and Backeaus. The briefer and most common demuhances such a power or valsage aurages are virtually inventible and can be dramaging, while surges are virtually inventible and can be dramaging, while surps are virtually inventible and can be dramaging, while such partial process of the passer of

Back-up prover plays a critical role in the purceration of IT systems in the short term, and as a consplement to a surge protector, an uninterruptible power supply (UPS) provides near-instantaneous protection from power incernations for near-ristantaneous protection from power instructions for a relatively shart parted. The systal pared of 11-50 minutes is anough time to properly shart down protected equipment in bring at a smillary power recurse ordine. This will provide a bridge to save obtact and insure shouldown commands to the operating system used gower resource normally or a secondar power resourch provides.



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IBHS ZIP Code Web-based Tool



Zip Code Risk Search Results

SEARCH RESULTS

ZIP CODE = 13905

Search

FLOOD

HIGH WINDS

WINTER WEATHER

WILDFIRE

Freezing Weather

Winter weather can cause a number of problems ranging from water leaks to burst pipes and roof collapses. All homes and businesses potentially can be at risk from damage during prolonged periods of freezing temperatures or in the case of heavy snow accumulations. Falling temperatures also mean increased fire dangers linked to the use of heating devices. Rising fuel costs and environmental concerns have resulted in a rise in the use of alternative heating devices, which can pose increased property risks if not properly installed and maintained.

Page 1 of 2 1 2



Advice for Staying Safe and Warm

In many areas the temperatures are plummeting. If you are at home and without power, IBHS offers guidance for using alternative heating devices.



Build a Plan for a Power Outage

How to safely keep the heat and lights on during a power outage.



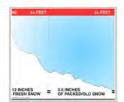
Disaster Planning: There's an App for That

The new Know Your Plan app gives you the mobile power and organization to help keep your family and your home safer during a disaster.



Installing Weather Stripping & Seals

Find out how both weather stripping and caulking can reduce your energy bills, as well as your winter weather risks.



Prevent Roof Collapse on Homes

Guidance for understanding how much snow is too much.



Preventing Frozen Pipes

Frozen pipes are one of the biggest risks of property damage when the temperature drops.



Are you ready for tomorrow?

- Monday, October 29, 2012
 Hurricane Sandy
- Monday, August 24, 1992

Hurricane Andrew

Sunday, May 221, 2011

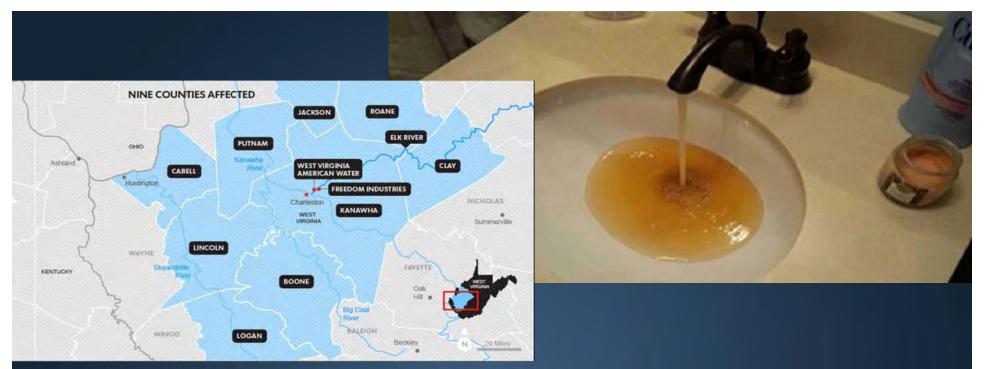
EF5 Tornado in Joplin, MO

Thursday, January 9, 2014

WV Chemical Spill

Tuesday, January 28, 2014

Atlanta's Snowpocalypse



- 75,000 gallons of Crude MCHM leaked into the Elk River in Charleston, WV
- 100,000 customers (or 300,000 people) of the Kanawha Valley
 Water Treatment Plant in 9 counties were told not to drink, bathe,
 cook or wash clothes with tap water
- All businesses with a health permit were instructed to close
- "Do Not Use" order lasted from Thurs, Jan 9 until Fri, Jan 17

Thank you



Questions?

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