

Disaster Recovery Checklist



How To Prepare the Data Center for Disaster Events

Assessment Item	Recommended Action	Complete
EXISTING PLANS		
Assess data center risks/threats	Perform a risk/threat assessment; ensure appropriate first aid equipment is available and that employees are trained to use it	<input type="checkbox"/>
Benchmark data center	Compare the data center to disaster recovery data center standards	<input type="checkbox"/>
Review the data center plan(s)	If a documented plan is not in place, develop one, and have it approved; include procedures for a graceful shutdown with priority of shutdown/power-up process	<input type="checkbox"/>
Communication plan	Determine how communications will be conducted with employees, management, vendors, etc. in a disaster event	<input type="checkbox"/>
Weatherproofing	Secure loose items, doors, and windows and clear all drains, have sandbags ready in high flood zones	<input type="checkbox"/>
Tabletop test or drill of the plan	Come together annually to ensure all employees and team members have reviewed the plan and understand their roles and responsibilities	<input type="checkbox"/>
Keep the plan up to date	Review and test the plan two times a year	<input type="checkbox"/>
Photograph or video tape facilities	Have visual inventory of the interior and exterior of data center facilities for insurance purposes	<input type="checkbox"/>
BUILDING CONSTRUCTION		
Type of construction	Consider the materials used for the building envelope; for wood and glass structures, special precautions may need to be taken for fires and high winds	<input type="checkbox"/>
Structural integrity	Consider if the facility can withstand severe weather conditions	<input type="checkbox"/>
Floor loading per square foot	Check to ensure your floor's weight limit has not been exceeded.	<input type="checkbox"/>
BUILDING LOCATION		
Promiximity to major highways, streets, rail lines or aircraft flight paths	For new builds, avoid proximity to hazardous waste routes and ensure another option for evacuation from existing facilities near these items	<input type="checkbox"/>
Location with regard to bodies of water, e.g., rivers, lakes, oceans	Avoid building in possible flood zones	<input type="checkbox"/>
Traffic control devices	Ensure your exits don't feed major roadways that are dependent on working traffic signals	<input type="checkbox"/>
Proximity to other buildings	Know what occupants of nearby buildings are doing to avoid any unplanned network outages due to related work or construction	<input type="checkbox"/>
Proximity to earthquake zone	Ensure racks and devices within racks are fully secured	<input type="checkbox"/>
Weather patterns	Avoid locations where severe weather patterns are common and take advantage of applications that track these weather patterns regularly	<input type="checkbox"/>
CCTV cameras	Disperse cameras around the interior and exterior of your data center site	<input type="checkbox"/>

BUILDING ACCESS & EXITS		
Number and location of all exits	Make sure there is an appropriate number of access points for the number of people in the facility and that methods of exits are safe	<input type="checkbox"/>
Access to exits from stairwells	Understand where to go from stairwells, especially if there is an inability to go down the stairs	<input type="checkbox"/>
Exit identification	Ensure exits are clearly marked and exit routes identified on each floor and hallway	<input type="checkbox"/>
Knox box	Ensure first responders know the location of the box and are trained on using it	<input type="checkbox"/>

STAIRWAYS		
Number and location of stairways	Train employees to know where all stairwell exits exist	<input type="checkbox"/>
Emergency lighting, signage and public address system in stairwells	Test systems and ensure connection to emergency, 24x7 battery backup	<input type="checkbox"/>
Fire protection equipment	Have equipment that is solely dedicated to stairwells such as a stair chair and have fire department check equipment on a regular basis	<input type="checkbox"/>

HVAC FACILITIES		
HVAC equipment	Know the location and power supplies for the HVAC equipment and have a backup system in place	<input type="checkbox"/>
Monitoring of HVAC systems and air quality	Have some form of monitoring in place	<input type="checkbox"/>
Environmental controls	Ensure controls are available for each floor	<input type="checkbox"/>
Fire protection equipment	Have a fire suppression system that is data center appropriate like a wet/dry system that should be tested regularly for leaks	<input type="checkbox"/>

WINDOWS, DOORS & INTERIOR WALLS		
Window access	Determine if windows are fixed or can be opened. Ensure windows can be secured in high wind such as taping, boarding, etc.	<input type="checkbox"/>
Window glazing or covering	Consider glazing to minimize ultraviolet radiation or covers to minimize wind or blast damage	<input type="checkbox"/>
Door construction	Install exterior doors that are solid and lockable, ensure glass doors are shatterproof, and use interior doors that are fire rated	<input type="checkbox"/>
Wall materials	Have floor-to-ceiling walls, movable partitions, and drop ceilings that are fire rated	<input type="checkbox"/>

ELECTRIC UTILITIES

Location of breakers	Know location of all breakers and clearly mark them even on floorplans	<input type="checkbox"/>
Cable routing and protection	Know types and routing detail for cables	<input type="checkbox"/>
Power distribution to floors	Have some understanding of power distribution by floor with some type of contingency plan for rerouting power	<input type="checkbox"/>
Data center Emergency Power Off (EPO) button	Make sure you have one, have it covered and is secured with something that can be broken in the case of an event	<input type="checkbox"/>
Fire suppression	Verify there is firestop material at floor, wall and ceiling penetrations; and ensure you have an extinguisher for an electrical fire	<input type="checkbox"/>
Lightning protection	Have a lightning rod in place and surge protectors on all equipment	<input type="checkbox"/>
Grounding and bonding	Work with facility's electrician to ensure proper grounding and bonding	<input type="checkbox"/>
Fire protection equipment	Have equipment that is solely dedicated to areas of critical electrical infrastructure	<input type="checkbox"/>

UTILITIES DISRUPTION

Access points	Know the number and location of utility access points into the building	<input type="checkbox"/>
Secure room for entry of utilities into the building	Keep all utilities together if possible and ensure nearby tools for turning utilities off	<input type="checkbox"/>
Fire protection equipment	Have equipment that is solely dedicated to critical utility spaces	<input type="checkbox"/>
Shut-off switches	Know the location and mark all shut-off switches	<input type="checkbox"/>
Generator maintenance	Ensure generator is tested monthly and have a contract in place for 2-3 fuel providers	<input type="checkbox"/>
Signage	Verify that the necessary signage exists in appropriate locations	<input type="checkbox"/>
Vendor contacts	Compile or update list with utility provider names and numbers	<input type="checkbox"/>

WATER & SEWER

Entry points into building	Know which entry points are vulnerable to water or sewage such as doors, windows, or roofs often affected during heavy rains; examine annually for loose tiles, cracks, etc.	<input type="checkbox"/>
Location of mains and placement of water towers	Be prepared in case of water main breaks that can cause flooding outside of severe weather events	<input type="checkbox"/>
Proximity to flood plain	Have a good understand of timing and characteristics of area flooding	<input type="checkbox"/>
Routing of water, sewer, and gas lines as well as fiber and copper cables	Trace cable networks and understand if or where they intersect or merge	<input type="checkbox"/>

FIRE

Notifications	Determine if notification will go to fire department or central reporting station	<input type="checkbox"/>
Fire detection	Ensure system is designed for building-wide detection	<input type="checkbox"/>
Monitors	Consider having monitors for each floor	<input type="checkbox"/>
Smoke and ionization detection equipment	Ensure use of equipment that will trigger alarms for environmental conditions that are present at the early stages of a fire	<input type="checkbox"/>
Fire suppression	Understand the type of extinguishment system in place such as dry pipe or water sprinklers	<input type="checkbox"/>
Fire extinguishers	Know where extinguishers are located and ensure appropriate signage	<input type="checkbox"/>
Fire drills	Schedule these practice events quarterly at a minimum	<input type="checkbox"/>
Evacuation signage	Ensure directional signage on each floor and in offices	<input type="checkbox"/>
Fire safety and evacuation plan	Document the ideal course of action during a fire and subsequent evacuation	<input type="checkbox"/>

LOSS OF POWER, LIGHTING OR ELEVATORS

Emergency power	Install or check generator(s) and identify power outlets	<input type="checkbox"/>
Generator	Ensure a secure location for the emergency generator(s)	<input type="checkbox"/>
Fuel tank	Make sure tank has a gauge and is protected	<input type="checkbox"/>
Fuel suppliers	Have both primary and alternate suppliers (at least three vendors) identified	<input type="checkbox"/>
Power system test	Run test monthly	<input type="checkbox"/>
Fuel-load system tests	Run tests quarterly	<input type="checkbox"/>
Emergency lighting	Check that emergency lighting is available on all floors, in stairwells, and by exits and run regular test of the emergency lighting system	<input type="checkbox"/>
Elevator safety	Conduct regular inspections; understand the power supply; plan for emergency access/egress; install signage to deter entry; and install emergency phones that are regularly tested	<input type="checkbox"/>