

# Aspidus 398 t/a Future Technologies & Electrical

# Emergency Disaster Recovery/Business Continuity Plan



# Emergency notification contacts

Name	Address	Home	Mobile phone
AK Piet			0710904037
TP Makhosi			0731486016
FG Mahote			078 998 0970



# **Revisions control page**

Date	Summary of changes made	Changes made by (Name)
	<u> </u>	



# Purpose

The purpose of this business continuity plan is to prepare FTE in the event of extended service outages caused by factors beyond our control (e.g., natural disasters, man-made events), and to restore services to the widest extent possible in a minimum time frame. All FTE sites are expected to implement preventive measures whenever possible to minimize operational disruptions and to recover as rapidly as possible when an incident occurs.

The plan identifies vulnerabilities and recommends necessary measures to prevent extended voice communications service outages. It is a plan that encompasses all FTE system sites and operations facilities.

# Scope

The scope of this plan is limited to the computer recovery facilities that have been designated as backups if the functional areas are disabled. Design of the Plan that this document records, including information about the overall structure of business continuity planning at FTE. This is a business continuity plan, not a daily problem resolution procedures document.

# Plan objectives

- Serves as a guide for the FTE recovery teams.
- References and points to the location of critical data.
- Provides procedures and resources needed to assist in recovery.
- Identifies vendors and customers that must be notified in the event of a disaster.
- Assists in avoiding confusion experienced during a crisis by documenting, testing and reviewing recovery procedures.
- Identifies alternate sources for supplies, resources and locations.
- Documents storage, safeguarding and retrieval procedures for vital records.

# Assumptions

- Key people (team leaders or alternates) will be available following a disaster.
- A national disaster such as nuclear war is beyond the scope of this plan.
- This document and all vital records are stored in a secure off-site location and not only survive the disaster but are accessible immediately following the disaster.
- Each support organization will have its own plan consisting of unique recovery procedures, critical resource information and procedures.

### Disaster definition

Any loss of utility service (power, water), connectivity (system sites), or catastrophic event (weather, natural disaster, vandalism) that causes an interruption in the service provided by FTE



operations. The plan identifies vulnerabilities and recommends measures to prevent extended service outages.

### Recovery teams

- Emergency management team (EMT)
- Disaster recovery team (DRT)
- IT technical services (IT)

See Appendix A for details on the roles and responsibilities of each team.

#### Team member responsibilities

- Each team member will designate an alternate
- All of the members should keep an updated calling list of their work team members' work, home, and cell phone numbers both at home and at work.
- All team members should keep this plan for reference at home in case the disaster happens after normal work hours. All team members should familiarize themselves with the contents of this plan.

### Instructions for using the business continuity plan

#### Invoking the plan

This plan becomes effective when a disaster occurs. Normal problem management procedures will initiate the plan, and remain in effect until operations are resumed at the original location or a replacement location and control is returned to the appropriate functional management.

#### **Disaster declaration**

The senior management team, with input from the EMT, DRT and IT, is responsible for declaring a disaster and activating the various recovery teams as outlined in this plan.

In a major disaster situation affecting multiple business units, the decision to declare a disaster will be determined by FTE senior management. The EMT and DRT will respond based on the directives specified by senior management.

#### Notification



Regardless of the disaster circumstances, or the identity of the person(s) first made aware of the disaster, the EMT and DRT must be activated immediately in the following cases:

- Two or more systems and/or sites are down concurrently for three or more hours
- Five or more systems and/or sites are down concurrently for three or more hours
- Any problem at any system or network facility that would cause either of the above conditions to be present or there is certain indication that either of the conditions are about to occur

#### **External communications**

Corporate public relations personnel are designated as the principal contacts with the media (radio, television, and print), regulatory agency, government agencies, and other external organizations following a formal disaster declaration.

#### **Emergency management standards**

#### **Data backup policy**

Full and incremental backups preserve corporate information assets and should be performed on a regular basis for audit logs and files that are irreplaceable, have a high replacement cost, or are considered critical. Backup media should be stored in a secure, geographically separate location from the original and isolated from environmental hazards.

Department-specific data and document retention policies specify what records must be retained and for how long. All organizations are accountable for carrying out the provisions of the instruction for records in their organization.

IT follows these standards for its data backup and archiving:

#### **Tape retention policy**

Backup media is stored at locations that are secure, isolated from environmental hazards, and geographically separate from the location housing the system.

#### **Billing tapes**

- Tapes greater than three years old are destroyed every six months.
- Tapes less than three years old must be stored locally off-site.
- The system supervisor is responsible for the transition cycle of tapes.

#### <u>System image tapes</u>

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- A copy of the most current image files must be made at least once per week.
- This backup must be stored offsite.
- The system supervisor is responsible for this activity.

#### **Off-site storage procedures**

- Tapes and disks, and other suitable media are stored in environmentally secure facilities.
- Tape or disk rotation occurs on a regular schedule coordinated with the storage vendor.
- Access to backup databases and other data is tested annually.

#### **Emergency management procedures**

The following procedures are to be followed by system operations personnel and other designated company personnel in the event of an emergency. Where uncertainty exists, the more reactive action should be followed to provide maximum protection and personnel safety.

*Note:* Anyone not recognized by the IT staff as normally having business in the area must be challenged by the staff who should then notify security personnel.

These procedures are furnished to FTE management personnel to take home for reference. Several pages have been included to supply emergency contacts.

In the event of any situation where access to a building housing a system is denied, personnel should report to alternate locations. Primary and secondary locations are listed below.

**Alternate locations** 

#### Workplace: Noordwyk office

• Attempt to contact your immediate supervisor or management via telephone. Home and cell phone numbers are included in this document



### In the event of a natural disaster

In the event of a major catastrophe affecting FTE facility, immediately notify **FG Mahote on** 078 998 0970.

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STEP	ACTION
1	Notify EMT and DRT of pending event, if time permits.
2	<ul> <li>If the impending natural disaster can be tracked, begin preparation of site within 48 hours as follows:</li> <li>Deploy portable generators with fuel.</li> <li>Deploy support personnel, tower crews, and engineering.</li> <li>Deploy tractor trailers with replacement work space, antennas, power, computers and phones.</li> <li>Facilities department on standby for replacement shelters</li> <li>Basic necessities are acquired by support personnel when deployed:</li> <li>Cash for one week</li> <li>Food and water for one week</li> <li>Gasoline and other fuels</li> <li>Supplies, including chainsaws, batteries, rope, flashlights, medical supplies, etc.</li> </ul>
3	<ul> <li>24 hours prior to event:</li> <li>Create an image of the system and files</li> <li>Back up critical system elements</li> <li>Verify backup generator fuel status and operation</li> <li>Create backups of e-mail, file servers, etc.</li> <li>Fuel vehicles and emergency trailers</li> <li>Notify senior management</li> </ul>



#### In the event of a fire

Procedure

If fire or smoke is present in the facility, evaluate the situation, determine the severity, categorize the fire as major or minor and take the appropriate action as defined in this section. Call fire station as soon as possible if the situation warrants it.

- Personnel are to attempt to extinguish minor fires (e.g., single hardware component or paper fires) using hand-held fire extinguishers located throughout the facility. Any other fire or smoke situation will be handled by qualified building personnel until the local fire department arrives.
- In the event of a major fire, call 011 847 4600 and immediately evacuate the area.
- In the event of any emergency situation, system security, site security and personal safety are the major concerns. If possible, the operations supervisor should remain present at the facility until the fire department has arrived.
- In the event of a major catastrophe affecting the facility, immediately notify senior management.

STEP	ACTION
1	Dial 011 847 4600 to contact the fire department.
2	Immediately notify all other personnel in the facility of the situation and evacuate the area.
3	Alert emergency personnel on: 011 312 9944
	Provide them with your name, extension where you can be reached, building and room number, and the nature of the emergency. Follow all instructions given.
4	Alert the EMT and DRT. <i>Note:</i> During non-staffed hours, security personnel will notify the Senior Executive responsible for the location directly.
5	Notify Building Security. Local security personnel will establish security at the location and not allow access to the site unless notified by the Senior Executive or his/her designated representative.



6	Contact appropriate vendor personnel to aid in the decision regarding the protection of equipment if time and circumstance permit.
7	All personnel evacuating the facilities will meet at their assigned outside location (assembly point) and follow instructions given by the designed authority. <b>Under no</b> <b>circumstances may any personnel leave without the</b> <b>consent of supervision.</b>

#### In the event of a network services provider outage

In the event of a network service provider outage to any location, the guidelines and procedures in this section are to be followed.

Procedure STEP		ACTION
1		Notify senior management of outage.
		Determine cause of outage and timeframe for its recovery.
alternate services. If it is a major outage and all carriers are down and		If outage will be greater than one hour, route all calls via alternate services.
		If it is a major outage and all carriers are down and downtime will be greater than 12 hours, deploy satellite phones, if available.



Procedure

#### In the event of a flood or water damage

In the event of a flood or broken water pipe within any computing facilities, the guidelines and procedures in this section are to be followed.

STEP	ACTION	
1	Assess the situation and determine if outside assistance is needed; if this is the case, dial 011 375 5555 immediately.	
2	Immediately notify all other personnel in the facility of the situation and be prepared to cease voice operations accordingly.	
3	Immediately notify all other personnel in the facility of the situation and be prepared to cease operations accordingly.	
4	<ul> <li>Water detected below the raised floor may have different causes:</li> <li>If water is slowly dripping from an air conditioning unit and not endangering equipment, contact repair personnel immediately.</li> <li>If water is of a major quantity and flooding beneath the floor (water main break), immediately implement power-down procedures. While power-down</li> </ul>	
	procedures are in progress, evacuate the area and follow management's instructions.	

#### Plan review and maintenance

This plan must be reviewed semi-annually and exercised on an annual basis. The test may be in the form of a walk-through, mock disaster, or component testing. Additionally, with the dynamic environment present within the company, it is important to review the listing of personnel and phone numbers contained within the plan regularly.

The hard-copy version of the plan will be stored in a common location where it can be viewed by site personnel and the EMT and DRT. Electronic versions will be available via FTE network resources as provided by IT. Each recovery team will have its own directory with change management limited to the recovery plan coordinator.



# Alert/Verification/Declaration phase (2-3 hours)

#### Plan checklists

Response and recovery checklists and plan flow diagrams are presented in the following two sections. The checklists and flow diagrams may be used by IT members as "quick references" when implementing the plan or for training purposes.



# Plan checklists

Initials	Task to be completed
minais	



### Notification of incident affecting the site

#### **On-duty personnel responsibilities**

#### If in-hours:

Upon observation or notification of a potentially serious situation during working hours at a system/facility, ensure that personnel on site have enacted standard emergency and evacuation procedures if appropriate and notify the EMT and DRT.

#### If outside hours:

IT personnel should contact the EMT and DRT.

# Provide status to EMT and DRT

Contact EMT and/or DRT and provide the following information when any of the following conditions exist: (See Appendix B for contact list.)

- Two or more facilities are down concurrently for three or more hours.
- Any problem at any system or location that would cause the above condition to be present or there is certain indication that the above condition is about to occur.

The EMT will provide the following information:

- Location of disaster
- Type of disaster (e.g., fire, hurricane, flood)
- Summarize the damage (e.g., minimal, heavy, total destruction)
- Meeting location that is a safe distance from the disaster scene
- An estimated timeframe of when a damage assessment group can enter the facility (if possible)
- The EMT will contact the respective market team leader and report that a disaster involving voice communications has taken place.

The EMT and/or DRT will contact the respective company team leader and report that a disaster has taken place.



# Decide course of action

Based on the information obtained, the EMT and/or DRT need to decide how to respond to the event: mobilize IT, repair/rebuild existing site (s) with location staff, or relocate to a new facility.

### Inform team members of decision

**If a disaster is not declared**, the location response team will continue to address and manage the situation through its resolution and provide periodic status updates to the EMT/DRT.

**If a disaster is declared**, the EMT and/or DRT will notify IT Tech Services immediately for deployment.

**Declare a disaster** if the situation is not likely to be resolved within predefined time frames. The person who is authorized to declare a disaster must also have at least one backup person who is also authorized to declare a disaster in the event the primary person is unavailable.

# Contact general vendors (see Appendix I)

# Disaster declared: Mobilize incident response/Technical services teams/Report to command center

Once a disaster is declared, the DRT is mobilized. This team will initiate and coordinate the appropriate recovery actions. Members assemble at the designated location as quickly as possible. See Appendix E for emergency locations.

# Conduct detailed damage assessment (This may also be performed prior to declaring a disaster.)

- 1. Under the direction of local authorities and/or EMT/DRT, assess the damage to the affected location and/or assets. Include vendors/providers of installed equipment to ensure that their expert opinion regarding the condition of the equipment is determined ASAP.
  - A. Participate in a briefing on assessment requirements, reviewing:
    - (1) Assessment procedures
    - (2) Gather requirements



(3) Safety and security issues

# *NOTE:* Access to the facility following a fire or potential chemical contamination will likely be denied for 24 hours or longer.

B. Document assessment results using assessment and evaluation forms contained in Appendix G.

Building access permitting:

- Conduct an on-site inspection of affected areas to assess damage to essential hardcopy records (files, manuals, contracts, documentation, etc.) and electronic data.
- Obtain information regarding damage to the facility (s) (e.g., environmental conditions, physical structure integrity, furniture, and fixtures) from the DRT.
- 2. Develop a restoration priority list, identifying facilities, vital records and equipment needed for resumption activities that could be operationally restored and retrieved quickly.
- 3. Recommendations for required resources.

### Contact DRT: Decide whether to continue to business recovery phase

The EMT and DRT gather information regarding the event; contacts senior management and provides them with detailed information on status.

Based on the information obtained, senior management decides whether to continue to the business recovery phase of this plan. If the situation does not warrant this action, continue to address the situation at the affected site(s).

# Business recovery phase (24 hours - full recovery)

This section documents the steps necessary to activate business recovery plans to support full restoration of systems or facility functionality at an alternate/recovery site that would be used for an extended period of time. Coordinate resources to reconstruct business operations at the temporary/permanent system location, and to deactivate recovery teams upon return to normal business operations.



# FTE system and facility operation requirements

The system and facility configurations for each location are important to re-establish normal operations. A list for each location will be included in Appendix F.

# Notify IT staff/Coordinate relocation to new facility

See Appendix A for IT staff associated with a new location being set up as a permanent location (replacement for site).

# Secure funding for relocation

Make arrangements in advance with suitable backup location resources. Make arrangements in advance with local banks, credit card companies, hotels, office suppliers, food suppliers and others for emergency support.

# Notify EMT and corporate business units of recovery startup

Using the call list in Appendix B, notify the appropriate company personnel. Inform them of any changes to processes or procedures, contact information, hours of operation, etc. (This may be used for media information.)

# **Operations recovered**

Assuming all relevant operations have been recovered to an alternate site, and employees are in place to support operations, the company can declare that it is functioning in a normal manner at the recovery location.



# Appendixes

# Appendix A: FTE recovery teams

**Emergency management team (EMT)** 

# *Note:* See Appendix B for contact list. Suggested members to include: senior management, human resources, corporate public relations, legal, IT services, risk management and operations

# **Charter:**

Responsible for overall coordination of the disaster recovery effort; evaluation and determining disaster declaration; and communications with senior management.

# Support activities:

The EMT:

- Evaluate which recovery actions should be invoked and activate the recovery teams
- Evaluate damage assessment findings
- Set restoration priority based on the damage assessment reports
- Provide senior management with ongoing status information
- Act as a communication channel to corporate teams and major customers
- Work with vendors and IRT to develop a rebuild/repair schedule

#### Disaster recovery team Note: See Appendix B for contact list

### **Charter:**

Responsible for overall coordination of the disaster recovery effort; establishment of the emergency command area; and communications with senior management and the EMT.

# Support activities:

- Coordinate with EMT and senior management
- Determine recovery needs
- Establish command center and assembly areas
- Notify all company department heads and advise them to activate their plan(s) if applicable, based upon the disaster situation
- If no disaster is declared, take appropriate action to return to normal operations using regular staff
- Determine if vendors or other teams are needed to assist with detailed damage assessment

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- Prepare post-disaster debriefing report
- Coordinate the development of site-specific recovery plans and ensure they are updated semiannually

### IT technical services (IT)

#### Charter

IT will facilitate technology restoration activities.

# Support activities

- Upon notification of disaster declaration, review and provide support as follows:
  - 1. Facilitate technology recovery and restoration activities, providing guidance on replacement equipment and systems, as required
  - 2. Coordinate removal of salvageable equipment at disaster site that may be used for alternate site operations

# Appendix B: Recovery team contact lists

#### **Emergency management team (EMT)**

Name	Address	Home	Mobile/Cell Phone
AK Piet			071 090 4037
TP Makhosi			073 148 6016
FG Mahote			078 998 0970

#### **Disaster recovery team (DRT)**

Name	Address	Home	Mobile/Cell Phone
S Letswara			074 926 8484
BS Piet			078 031 1415



#### IT technical services

Name	Address	Home	Mobile/Cell Phone
Jacques de Jager			083 289 2991
Kobus Hough			079 6787840

# Appendix C: Emergency numbers

# First responders, public utility companies, others

Name	Contact Name	Phone
Police		10 111
Fire Department		011 847 4600
TRS Armed response		011 708 1895
Ambulance EMER-G-MED		0861 007 911/10 177
Electricity		011 375 5555
Joburg Water		011 375 5555
Telephone line faults		10 217
Internet Service Provider		10 217

# Appendix D: Contact list

Name	Address	Home	Mobile/Cell Phone
AK Piet			071 090 4037
TP Makhosi			073 148 6016
FG Mahote			078 998 0970



# Appendix E: Emergency command center (ECC) locations

# Emergency command center - Midrand

Primary:	68 Elizabeth Fry Street Vorna Valley Midrand Contact: "AK Piet - (011) 312 9944
Alternate:	10 Cedar Street Noordwyk Midrand Contact: "FG Mahote - (078) 998 0970



# Appendix F: Forms

#### Incident/disaster form

Upon notification of an incident/disaster situation the on-duty personnel will make the initial entries into this form. It will then be forwarded to the ECC, where it will be continually updated. This document will be the running log until the incident/disaster has ended and "normal business" has resumed.

#### TIME AND DATE

### TYPE OF EVENT

### **LOCATION**

#### **BUILDING ACCESS ISSUES**



# PROJECTED IMPACT TO OPERATIONS

**<u>RUNNING LOG (ongoing events)</u>** 



#### Critical equipment status form

# CRITICAL EQUIPMENT STATUS ASSESSMENT AND EVALUATION FORM

Recovery team:				
	[]			
<u>Equipment</u>	<b>Condition</b>	<u>Salvage</u>	<u>Comments</u>	
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11.				
12.				
13.				
14.				
15.				

### Legend

Condition: OK - Undamaged DBU - Damaged, but usable DS - Damaged, requires salvage before use D - Destroyed, requires reconstruction



# Appendix G: Building evacuation information

Procedure

STEP	ACTION		
1	When the alarm sounds stop what you are doing.		
2	Assess the situation and determine if outside assistance is needed; if this is the case, dial 011 847 4600 immediately for fire department.		
3	Leave immediately by the nearest door/exit.		
4	Proceed in an orderly manner to assembly point.		
5	Remain in assembly point until all-clear message is given by EMT.		

**Comments** 

# Appendix H: Inventory of primary equipment and network services

## **Equipment**

1. 1 x HP server	Hardware
2. 4 x HP Laptops	Hardware
3. 1 x HP Officejet color printer	Hardware
4. 2 x HP desktop	Hardware
5. Netgear router	Hardware
6. 1 x switchboard Telephone	Hardware
7. Telkom SA	Internet Service Provider

& ELECTRICAL

Rel. 1, Ver. 0 [05/01/2012]

# Appendix I: Inventory of backup equipment and systems

#### <u>Equipment</u>

#### **Comments**

- 1. Hetzner SA
- 2. 1 x 3TB external hard drive
- 3. 1 x 750MB external hard drive
- 4. 1 x 1TB external hard drive

Domain and e-mail hosting services hardware – back up Utility usage Software – back up

### Appendix J: Approved vendor list

# Server and computer equipment suppliers

Company Name	Contact	Work	Mobile phone
Makro stores	Computer sales	0860 301 999	
Incredible connection	Software sales		
Game stores	Computer sales	011 690 2900	

#### Communications and network services suppliers

Company Name	Contact	Work	Mobile phone
Hetzner SA		021 970 2000	
Telkom SA		10217	