



positive energy

NORTH COAST FIELD SERVICES

GYMPIE FLOOD PLAN

Book No:

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INTRODUCTION

This Flood Plan details the emergency operating system to be implemented when the Mary River reaches the 6 to 11 metre mark at Kidd Bridge, Gympie.

ENERGEX's systems and equipment are under threat of damage due to floodwaters when the Mary River crosses Kidd Bridge at a height of 11 metres. Rising water levels from the Mary Valley catchment are normally fairly predictable with sufficient lead time to respond.

ENERGEX's response at the various river heights has been documented from information captured from previous floods.

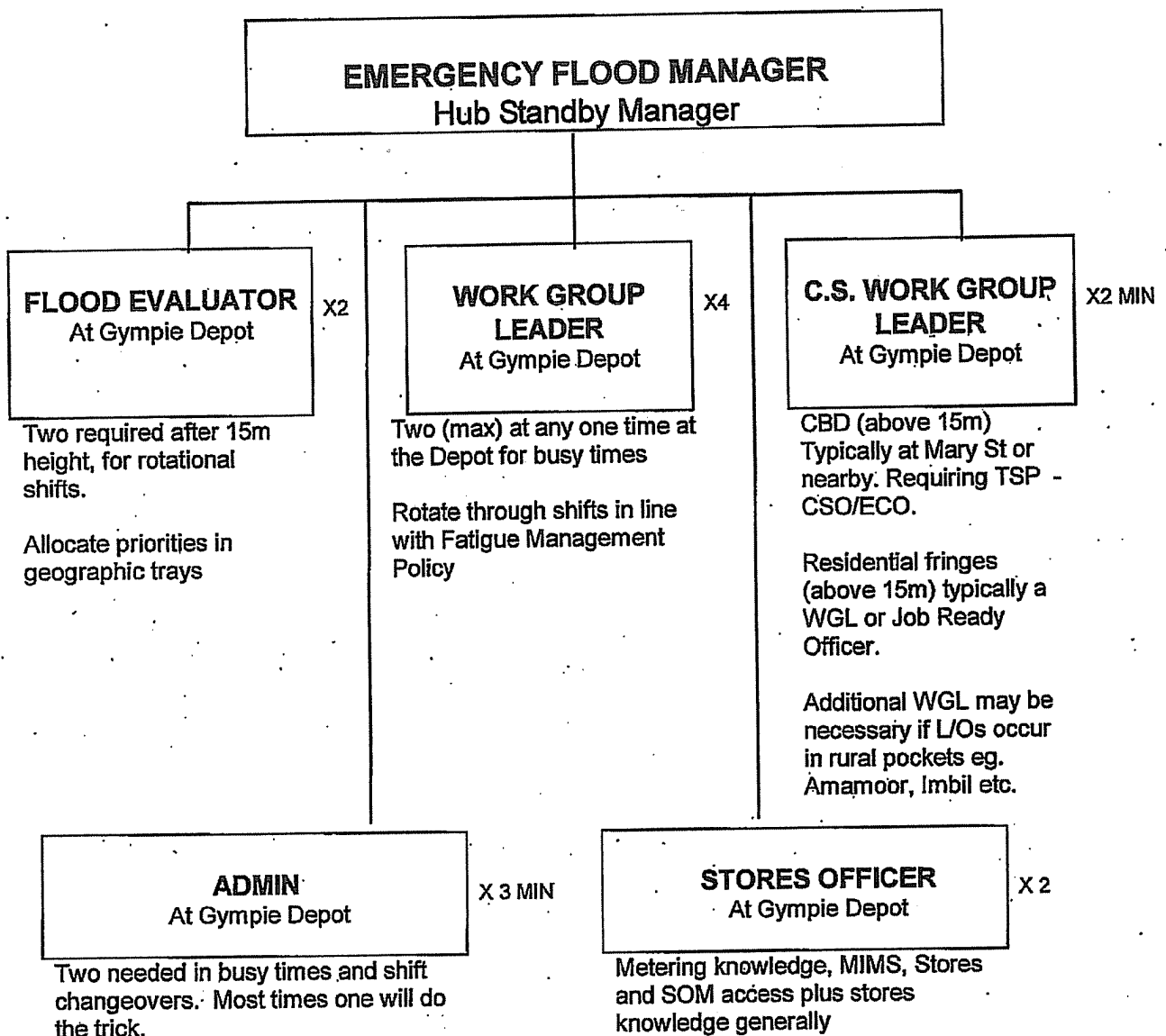
Information will be received from the Bureau of Meteorology, SES and Cooloola Counter Disaster Group regarding river heights and rainfall received, as well as local knowledge.

The GYMPIE FLOOD FIELD BOOK is an attachment to this document providing information relating to disconnecting and reconnecting premises, and lists areas that need to be disconnected according to the rising river height.

North Coast Control, Maroochy Storm Room, Gympie Depot and ENERGEX Corporate Communications will be operational in full or part for the duration of the flooding until all networks are returned to normal status.

This plan is to be revised annually prior to the storm season, each September.

STRUCTURE



ASSUMPTION

1. Storm / flood related Network problems exist elsewhere in North Coast and Maroochydore Hub will be on L2 status at almost all times while Gympie Depot is in flood response mode.
2. All non-Gympie centre losses of supply, wires down and area troubles to be coordinated from Maroochydore Hub Storm Room.
3. Hub manager/Flood evaluator to liaise with Evaluation/despatch team for SCM, related losses of supply, local wires down and area troubles.
4. Maroochydore Hub to coordinate all SSAMR and SSTCB losses of supply, remote Wires Down and Area Troubles.
5. **Disconnects and meter removals** – Meter / premise disconnection to be issued through despatch utilising tough books, all details of meter readings and Form 3 numbers are to be entered at completion of each task.

Reconnects – as above

RESPONSIBILITIES

EMERGENCY FLOOD MANAGER

- ♦ Advise Despatcher that Flood Plan has been invoked and depot is now manned
- ♦ Ensure all points in the Flood Plan are being carried out and the resources are available to deal with the threat of flood. Arrange external issues such as contractors, helicopters, boats etc.
- ♦ Liaise with Counter Disaster rep from North Coast Asset Management to communicate with Gympie Regional Council Counter Disaster Group, SES and other Emergency Services as is necessary. Emergency Services are to be provided with telephone number for direct contact. Phone numbers to be decided at Flood Response 11-13 metres. Counter Disaster representative will be required to attend meetings as required with local Counter Disaster Group usually at the Council Chambers, Mary Street.
- ♦ Ensure communication lines are in place between Corporate Communications, NCC, Gympie Depot, (Corporate Comms) will do the high level communicating to radio stations / media. Supply information for media release to Corporate Communications to enable drafting and release.
- ♦ Liaise with Evaluation/Despatch for the issuing of Service Orders for Disconnection for safety and meter removals, review resource levels are adequate for volume of work
- ♦ Overview operations at Gympie Depot including actions required throughout the Gympie Flood Field Book.
- ♦ Overall management of fatigue levels (18 hours maximum) – allocate FATMAN responsibility

FLOOD EVALUATOR

- ♦ Communicate with North Coast Control Operations Controller on the overall state of the network
- ♦ Monitor river heights using data from BOM and forecast future resource requirements
- ♦ Ensure Work Group Leader and Flood Manager are aware of the state of the Network
- ♦ Monitor jobs in SCM
- ♦ Ensure Gympie Flood Field Book actions are completed and noted.
- ♦ Assist in allocating work to crews
- ♦ Arrange for vehicles and equipment to be positioned to suit anticipated river levels
- ♦ Communicate with Maroochy Hub, ie: incoming jobs and completed jobs levels
- ♦ Document supply interruptions:
 - Feeder outages
 - LV Switchings
 - ensure meter removals are recorded

WORK GROUP LEADER

- ♦ Team with Manager and Evaluator. Ensure competency of staff matches requirements and the mix is right for the areas that will become isolated. Manager vehicle deployment, relief arrangements and accommodation.
- ♦ Establish crew using Adventex/Fatman input form (Form 1315), manage fatigue of Gympie office and field staff – feed into FATMAN
- ♦ Document staff ON and OFF times to ensure suitable rest breaks
- ♦ TMR communication - assisted by Communications Department
- ♦ Arrange food for staff in conjunction with office staff – Red Cross food van.
- ♦ Despatch Field books to work crews, brief them on contents and how books are to be used. Note who books are assigned to.
- ♦ Assign and register hand held TMR's to crews and ensure correct operation.
Note: These radios are stored in flood cupboard and should be charged for use. Hand held to hand held should be programmed to SIMPLEX 1, 2, 3 or 4. Best to use SIMPLEX 3 or 4 as they are ENERGEX ONLY channels.
- ♦ To ensure that premises are isolated in a timely manner before water reaches wiring or switchboards
- ♦ To ensure field crews notify depot of disconnects and reconnects
Note: There is provision in the Field Flood Book to record details, eg. meter nos. and premises etc

Provide space for storage of removed meters at Gympie depot and other required locations

- ♦ Patrol streets to identify areas of disconnect if energised circuits are within 3 metres of flood waters, where watercraft may come into contact with **LIVE MAINS**
- ♦ Liaise with Work Group Leader with regard to staff requirements ie: meals, rest breaks etc

ADMINISTRATION

- ♦ Provide a list of employees and phone numbers
- ♦ Register staff ON and OFF times in FATMAN, provide reports on 2 hr warnings for fatigue end cycles
- ♦ Contact service stations to arrange meals at Gympie, Monkland and Southside. Utilise Red Cross food van where possible.
- ♦ Fuel for vehicles at Monkland and Southside
- ♦ Arrange accommodation for staff as required in appropriate locations
- ♦ Record helicopter times of use
- ♦ Bookmark Bureau of Meteorology web page for information relating to flood heights
<http://www.bom.gov.au>
<http://www.bom.gov.au/hydro/flood/qld/>
<http://www.bom.gov.au/hydro/flood/qld/brochures/mary/mary.shtml>
http://www.bom.gov.au/cgi-bin/wrap_fwo.pl?IDQ60287.html#Mary

BOM Flood forecasts are updated up to six times per day throughout the flood event

STORES

- ♦ Ensure early ordering of meters.
- ♦ Materials such as poles, cables & transformers may have to be transported to various locations.
- ♦ Assist in storage of removed meters.

FLOOD RESPONSE

FLOOD WARNING

BOM will issue an email to the Network Control Shift Manager (Vic Park) advising of a Flood warning for the Mary River (note this normally gives between 21 and 27 hours notice of a pending flood of 12m or greater in Gympie)

Shift Manager (Vic Park) to alert the North Coast Field Services Manager and North Coast Asset Manager to the flood warning

North Coast Field Services Manager to advise Flood Evaluator to commence river height monitoring using BOM data/website/SES information and commence making preparations for our flood response.

North Coast Field Services Manager to liaise with Energex event manager at 12m mark to assess if "orange alert" level 2 event notification is required.

Flood response times will differ with the level of increase of rising flood water, reviews may be required at 15 minute intervals

BOM provide forecasting of flood levels when requested

6.00 METRES

Automated BOM alert triggers Net Ops Shift Manager to issue a Blue alert for "Flood warning – Mary River"

Triggers the North Coast Field Services Manager to allocate a person(s) to fulfil the duties of the Flood Evaluator to monitor flood data information from BOM and to make preparations to deal with a potential flood situation and establish the Flood Plan Organisation Structure

6.00 - 12.00 METRES

1. Refer to "Flood Field Book" for details of disconnects of supply points (including customers, streets, sewerage pumps, streetlights, transformers etc.) throughout the flood levels indicated below.
2. Advise other Emergency Services of ENERGEX contact phone numbers:

Depot Phones:	Appendix 1 lists contact numbers for Emergency Services
North Coast Control:	
Public Relations:	Appendix 2 lists Emergency Services phone numbers
Cooloola Shire Council:	
State Emergency Services:	
Police:	
Bureau of Meteorology:	

3. Continue monitoring of BOM Flood Data website and maintain contact with SES for checks of hourly river gauge readings at Kidd Bridge. SES Phone No.
Note: SES readings start after Kidd Bridge is flooded at 11m.

Note: Roads to Gympie will be cut at about 15 metres.

12.00 - 13.00 METRES

Review resource requirements and positioning in possible isolated areas (at 14 metres) of Monkland, Southside and Gympie central.

MONKLAND - 2 x 4 wheel drive vehicles
- 6 staff - primary fuse removals/meters/HV switching
- 2 CSO/ECO plus vehicles

SOUTHSIDE - 1 x 4 wheel drive vehicle
- 1 x EPV
- 6 staff - primary fuse removals / meters / HV switching
- 2 CSO/ECO vehicles

GYMPIE - - CBD - TSP - ECO/CSO
- Monkland - TSP - ECO/CSO
- River Road
- Cross Street
- Bruce Hwy (North)

One Mile Area - ECO/CSO
- Primary & Meter removals

Brisbane Road - ECO/CSO
Phoenix Street - TSP
Hilton Road
Hyne Street

4. Review Personal levels for Gympie Depot to support field staff:

1 x Work Group Leader
1 x Field Coordinator
1 x Storeperson for meter removal collection

Bruce Highway will be closed at 13.8 Metres at Cobb Gully which is just south of the Caltex Service station. At this stage accommodation needs to be reviewed and secured.

5. Communication:

- Engage additional phone (stored in Flood Cupboard) to phone line
- 2nd TMR to switch from TMR to UHF for communication with helicopter when required.
- Contact for Communications Manager is via standby roster at Net Ops.

6. Admin to provide list of employees and home phone numbers.

7. Continue monitoring of BOM Flood Data website and maintain contact with SES for checks of hourly river gauge readings at Kidd Bridge. SES Phone No. :
Note: SES readings start after Kidd Bridge is flooded at 11m.

Note: Roads to Gympie will be cut at about 15 metres.

13.00 - 14.00 METRES

The Bruce Highway will flood at approximately 14 metres, at Cobbs Gully south of Kybong Block Works. Additional resources must be en-route with spare clothes and accommodation booked.

14.00 - 15.00 METRES

Refer to Cooloolo Shire Council Local Disaster Management Plan (detail CBD plan)

ENERGEX Corporate Communications will contact radio stations advising Electricity Supply may be disconnected in Gympie CBD if flood waters continue to rise.

CBD Mary Street

Flood Manager, Flood Evaluator and Work Group Leader to carefully consider the need to de-energise Gympie CBD.

Transformers to be de-energised:

SP10717 Reef Street

SP10234 Monkland Street

SC738463 Cullinanes Plaza

A police presence can be arranged via Counter Disaster Group if required.

Staff for Disconnects for safety

- 3 TSP

- 6 ECO or CSO

(Consider resourcing from other North Coast Work Groups first, including other local LOBs).

15.00 METRES +

Note: Major routes will be cut after 15m isolating Gympie, Monkland and Southside.

Dispatch vehicles, personnel and relief resources to Monkland and Southside – ensure accommodation is available.

Access may be available via Kin Kin to Gympie

Access may be available via Mary Valley Highway

(Check with SES on road closures)

Vehicles

4 x 4 required for access in most area's.

Access to Rainbow Beach and Tin Can Bay - consider via Teewah Beach (at low tide) or Wide Bay Board via Maryborough Coastal Road.

16.00 METRES +

Flood water will reach the 132kV at Jimbour Road, The Palms, at approximately 21metres. Residents traverse beneath the line in boats. Control to arrange de-energisation of 132kV at T8 and Woolooga.

17.00 METRES - AERIAL PATROL

Refer to Cooloolo Shire Council Local Disaster Management Plan (detail CBD plan)

The following are the feeders NCC suspect or were confirmed to be interrupted by flood waters. These should be marked for aerial inspection at a river height (Kidd Bridge) of 18.00 metres. The feedback from this inspection would enable more accurate switching decisions to be made.

1. IBL2 - 15.3 mtrs

Aerial patrol required on IBL2. The cause of previous outages was trees on mains. The area could not be accessed due to floodwaters.

2. AMR3 - 17.3 mtrs

This feeder went under water in various places between ABS X7094 Goomong Road & PMR X24362 Bergins Pkt Road. Helicopter flew over the feeder at 1700 (20.0 mtrs) and found sections under or near to being under water.

3. F339 - 9.4 mtrs

This feeder should be checked between P1444 and Mary River pumping station. The rest of this feeder has 11kV under it and was not affected.

Note: When F339 tripped at 19.4 mtrs ABS X12796 was opened and SSAMR re-energised. The section past ABS X12796 was not tried as there was no value in checking this area at that stage.

4. AMR2 - 21.9 mtrs

This feeder was reclosed successfully at 1904 on 10.2.99 (19.8 mtrs). A helicopter found all the feeder above floodwater.

5. GYM 8B - 20.5 mtrs PMR X 24360

The section of this feeder past ABS X21247 Bells Bridge was isolated and feeder restored. All supply restored at 0855 on 11/2/99 (16.5 mtrs).

6. GYM 8A - 21.9 mtrs

This feeder had sections isolated because of flood waters. Trees caused the outage to the rest of the feeder and could not be accessed due to floodwater.

Note: We believe that an aerial inspection of the above feeders and trouble spots at (18 mtrs) would allow switching on GYM9, AMR3, GYM8B and AMR2 which would limit the areas to be interrupted in future floods.

TOOL LIST FOR DISCONNECTS AND RECONNECTS

For use when importing Cust Service type field staff.

- ♦ Fuse extraction stick
- ♦ 6ft step ladder - mainly for Mary Street
- ♦ Megger
- ♦ Sealing pliers
- ♦ Cordless drill
- ♦ Mobile phone or portable TMR
- ♦ Torch with spare batteries
- ♦ Marking pens

STORES

Meters

Type: Normal Dom (5079) / Relays / Time clocks / Dual Rate / Plug Ins / Polyphase

Qty: 500 / 250 / 500 / 1500 / 50 / 150

Transformers

Type: Storeman to check current stocks.

Qty: 10kVa (2), Single phase 25kVa (2), Three phase 25kVa (2), 63kVa (2), 100kVa (1), 315kVa (1). 33/415 transformer needs to be around Toolara Forest area.
Contact Banyo Store

Fuses

Type: Storeman to check current stocks – primary fuses and EDO fuses mainly.

MEDIA RELEASES

ENERGEX CORPORATE COMMUNICATIONS RESPONSE DURING A FLOOD

ENERGEX Corporate Communications has in place standard response procedures for any emergency and these encompass a flood situation at Gympie.

(Please note during a storm or other major network incident originating in the Brisbane area, the Corporate Communications Team and Duty Officer are automatically paged).

Corporate Communications has a Duty Officer who is on call 24 hours a day and can be contacted on or after hours on

The on duty Corporate Communications Officer then implements the following procedure:

1. Provides immediate media advice if required (in consultation with the appropriate local contact for information).
2. Contacts the relevant person for information and to discuss media liaison.
3. Advises via the Group Manager or Media Manager the CEO and / or Board through the Company Secretary if necessary and / or other key stakeholders, including the Ministerial media staff if required.
4. Assesses the need to proactively contact the media urgently (if not already responded to a media request or provided urgent advice).
5. Provides regular updates to the media as required (these are given by fax and/or live/recorded interviews).
6. Provides copies of media releases as required to:
 - the CEO
 - Contact Centre, Control Centre
 - other stakeholders as required, eg. the GM Network, Asset Performance; GM Energy Delivery and GM Customer Services
7. Updates the Internet Web page
8. Calls in additional Corporate Communications team members if required, particularly if the issue is ongoing
9. Advises the media of contact details for the next day.

Please note: The media have been provided on many occasions with the Corporate Communications 24 hour number. — (business hours) and

DISCONNECTION OF POWER

If floodwaters enter your premises ensure ELECTRICITY is switched OFF at your switchboard.

Contact ENERGEX if you are evacuating your premises and ELECTRICITY is still connected.

PHONE 131962 (Unless advised otherwise by Corp Communications)

SAFETY

Power should be disconnected before switchboards or wiring is flooded

In locations where Emergency Services groups or public are operating watercraft in flooded streets than a minimum clearance of 3.0m to conductors.

It is essential that boats in floodwaters are used **ONLY** for emergency purposes.

AREAS WITHOUT ELECTRICITY

Corporate Communications to provide media with regular updates, outages and restoration predictions.

RESTORATION OF SUPPLY

ENERGEX advise that when flood waters have receded below all electrical equipment that customers are required to obtain the services of an Electrical Contractor.

For safety reasons, the contractor needs to clean, test and dry all electrical equipment prior to ENERGEX reconnecting power.

Once tests are carried out please contact ENERGEX to arrange power to be restored.

PHONE: 131962 (Unless advised otherwise by Corp Communications)

USE OF HELICOPTERS AND BOATS

STORES, TRANSPORT AND FAULT FINDING

In the event of breakdowns caused by storms, trees in mains etc, the following procedure would be adopted for getting crossarms, cable and fitting gear etc from Gympie store.

BOATS - contact SES if boats are required

Advice from Operating Standards Engineer ENERGEX regards operating switch gear, ie. air brakes and EDO's from boat or standing in water should be no problem provided all procedures and practices are followed, eg look for hazards, wear insulating gloves etc.

Note:

1. A detailed risk assessment shall be carried out before proceeding
2. Ensure boat is secure prior to operating electrical apparatus

HELICOPTER

Weather permitting, the use of a helicopter for fault finding and supply restoration during floods is desirable.

Helicopters to be sourced through Standby Contracts Coord – Control Centre

Normally the helicopter will load and take off from the Gympie High School.

Ensure the helicopter can communicate with depot UHF and set TMR to UHF.

SUPPLIES FOR GYMPIE DEPOT AND FIELD STAFF

This section relates to food, bedding and fuel supplies for the field staff and depot staff.

FOOD - FIELD STAFF

The onus is on the field staff to radio if you are hungry so the Flood Coordinator / Supervisor can organise food and a pick up point.

FUEL SUPPLIES

Vehicles must be refuelled before travelling to remote areas.

ACCOMMODATION

Advise crews brought in from other areas to bring additional clothes. During the February '99 floods crews were flown in and ended up staying 3 days. Administration to organise accommodation at motels.

FLOOD HEIGHTS RECORDS

	<u>AHD</u>	<u>DECK LEVELS</u>
KIDD BRIDGE (SOUTHSIDE)	R.L. 46.87	10 METRES
INGLEWOOD BRIDGE (BRUCE HIGHWAY)	R.L. 49.9	13 METRES
PENGELLY'S (MONKLAND/ONE MILE)	R.L. 52.4	15 METRES
NORMANBY BRIDGE (MARY VALLEY)	R.L. 52.8	15 METRES
SIX MILE (BRUCE HIGHWAY)	R.L. 52.8	15.5 METRES

BRUCE HIGHWAY - COBBS GULLY SOUTH OF GYMPIE BRICKWORKS KYBONG CUT AT 14 METRES FLOOD HEIGHT.

FLOOD MAP GEOGRAPHICS RECORDED RL 50 = 13 METRE FLOOD AND RL 55 = 18 METRE FLOOD AT SCALE 1:500

1999 FLOOD PEAKED AT 21.9 METRES

1992 FLOOD PEAKED AT 21.4 METRES

1989 FLOOD PEAKED AT 19.63 METRES

1974 FLOOD PEAKED AT 20.73 METRES (68') R.L. 56.6

1955 FLOOD PEAKED AT 21.5 METRES (70'3") R.L. 58.4

1893 FLOOD PEAKED AT 25.5 METRES (83'6") R.L. 62.4

APPENDIX 1**PHONE NUMBERS FOR EMERGENCY SERVICES GROUP**

The following phone numbers are to be given to Emergency Services when they require "Information" and also the latest "State of the Network" info:

For information on state of ENERGEX Network, contact

ENERGEX 13 12 53

For operational issues relating to dangerous situations such as life threatening or wires down or wires in water, they would need to telephone: 13 19 62

ENERGEX North Coast Control Room in Howard Street, Nambour – Phone: : (Priority No.)

The public wanting to advise of disconnects or reconnects would need to phone: 13 12 53

For LIFE THREATENING SITUATIONS - Phone: 000

This number is to be used by Emergency Services Groups ONLY in case of EXTREME EMERGENCY, not for general public use.

APPENDIX 3**LIST OF LOCAL PERSONNEL**

For a list of local staff, refer to MATES on the ENERGEX intranet site.

Details of any resources not appearing in MATES should be requested via the Storm Room Manager at Control Centre.

APPENDIX 4

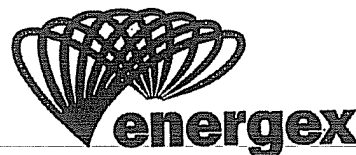
ELECTRICAL CONTRACTORS FLOOD LIST AS AT FEBRUARY 08

NAME	ADDRESS	PHONE NUMBERS
Abacus Air and Electrical	1021 Tin Can Bay Road Gympie	Phone 5483 3696
A C Connections	PO Box 1260 Gympie	Phone 0412 017717
A E Electrical	Curra	Phone 0420 637476
AJ's Electrics	22 VanDoren Road Gympie	Phone 0407 965825
B & J Morgan Electrical	76 Sovereign Dve Gympie	Phone 5483 8834
Bailey's Electrical	1021 Tin Can Bay Road Gympie	Phone 5483 3504
Fred Blomer Electrician	174 Shadbolt Road Gympie	Phone 5483 5276
Gary Brennan		Phone 5485 1582
Brisbane Electrical	5 Station Road Gympie	Phone 5482 5571 or 1300 302186
John Buckley	54 Chatsworth Road Gympie	Phone 5482 4833
Electrical Contracting Construction and Maintenance Services	1 Park Lane Gympie	Phone 5482 7033
Ellison Electrical	203 Birt Road Gympie	Phone 5483 2223 or 0409 719363
Eric Betts	Main Street Kandanga	Phone 5484 3462
Leo Fewtrell	33 Shields Street Gympie	Phone 5482 8170
Glen Williams	Lot 4 Rycott Road Chatsworth	Phone 5482 6083
P T & L C Griffiths	7 Golden Hind Ave Cooloola Estate	Phone 5486 2316
Groves Electrical	5 Corella Court Gympie	Phone 5483 6298
Gympie Electrical		Phone 0407 745662
Mary Valley Electrical	Dagun	Phone 5484 3513
Ray Morgan	36 Nash Road Gympie	Phone 5482 4557
P & N Electrical	Po Box 1005 Gympie	Phone 0409 728683
A & C M Parker	6 Heather Street Southside	Phone 5482 5603
P H E	2 Hall Road Mothar Mountain	Phone 5482 7699
Deens Electrical	11 Stewart Tce Gympie	Phone 5482 2366 or 5482 2038
Bonnick Electrical Contractors	200 Corella Road Gympie	Phone 5482 5580

ATTACHMENT CJA-8

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11 January 2011



media release

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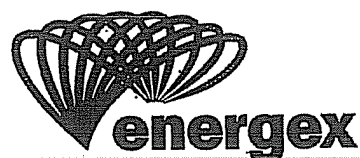
ENERGEX flood fast facts – 4pm

- Current outages: 18,945
- Worst affected areas: Brisbane Valley, Lockyer Valley, Gympie, Mary Valley and Brisbane's inner southern suburbs.
- Access issues are still hampering ENERGEX crews.
- Safety: ENERGEX is asking people to have a qualified electrician inspect homes and electrical appliances that may have been water damaged.
- ENERGEX thanks the people of South East Queensland for their patience during power outages.
- ENERGEX also recommends people have fresh and spare batteries for their torches and radios.
- It is also recommended that mobile phones and laptop PCs should be kept fully charged where possible.
- Live power outage information can be found at www.energex.com.au/myarea then follow the "unplanned interruptions" link.

ENDS

For media inquiries: Office Hours (07) 3664 4420 or After Hours (07) 3664 5191

12 January 2011



media alert

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FOR URGENT RELEASE

ENERGEX confirms more than 100,000 without power

ENERGEX is continuing to switch off power to areas in the South East as areas become inundated by floodwaters.

Due to the scale of this flood crisis, ENERGEX are disconnecting suburbs as necessary for safety reasons. The situation is being continually monitored in conjunction with disaster management groups.

Please look at the flood maps provided by your local council on their website. If they show you are in a flood prone area then there will be a high probability your power will be disconnected.

Those people not in low lying or flood prone area may still be impacted by power interruptions because of the web-like structure of our network.

Power restoration times are dependent on the rate that floodwaters recede and the extent of damage to electrical equipment.

ENERGEX is urging people with medical conditions who rely on electrical-powered equipment, as well as refrigerated medications, to keep in close contact with their medical practitioner and seek advice.

ENERGEX has released a list of suburbs affected by power interruptions as at 3pm:

Please note: surrounding suburbs may also be affected due to the web-like structure of the network

Albion
Arana Hills
Archerfield
Auchenflower
Bald Hills
Bellbowrie
Bowen Hills
Brisbane CBD
Bulimba
Coopers Plains
Coorparoo
Corinda
East Brisbane
Fairfield

Fig Tree Pocket
Fortitude Valley
Graceville
Hemnant
Herston
Highgate Hill
Indooroopilly
Jamboree Heights
Kenmore
Middle Park
Milton
Moggill
Moorooka
Mt Ommaney
New Farm
Newstead
Oxley
Pinkenba
River Hills
Rocklea
Seventeen Mile Rocks
Sherwood
Sinnamon Park
South Brisbane
St Lucia
Sumner
Taringa
Tennyson
Tingalpa
Wacol
West End
Westlake
Willawong
Windsor
Yeerongpilly

ENERGEX is also asking any customers who see damaged or threatened electricity infrastructure to keep themselves and others well clear and to call ENERGEX's priority line on 13 19 62.

ENERGEX thanks customers for their patience and understanding during this natural disaster.

ENDS

For media inquiries: Office Hours (07) 3664 4420 or After Hours (07) 3664 5191

13 January 2011



media alert

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ENERGEX recovery and rebuild operation in full swing

As floodwaters begin to recede in the Brisbane and Ipswich areas and weather conditions ease across South East Queensland, ENERGEX's recovery and rebuild operation is in full swing.

Better weather and lower floodwaters are allowing our crews to gain access to infrastructure to inspect equipment. Where possible, ENERGEX is working to restore power to homes and businesses that have not been affected by floodwaters.

More than 400 ENERGEX crews are mobilised across the south east corner on road and in the air, making every effort to restore power as quickly and as safely as possible.

Crews are currently working to restore 105,000 homes and business across the south east. In the last three days crews have worked around the clock to restore power to more than 140,000 customers.

ENERGEX appreciates the patience of all South East Queenslanders as this enormous recovery effort continues with restoration times dependent on the rate that floodwaters recede and the extent of damage to electrical equipment.

Power to 66,000 customers in the Brisbane area and 30,000 customers in the Ipswich area are currently being restored. Work to restore supply continues to be dependant on how fast floodwaters recede and the extent of damage to equipment.

The Lockyer Valley and Brisbane Valley areas remain a priority with 8,000 homes and business with out power. Up to eight helicopters carrying ENERGEX crews are surveying damage to the network. Crews on the ground are working to overcome access issues including flooded roads, fields and impassable access tracks.

In the Gympie and Mary Valley area crews are working to restore 700 customers. Since the weekend, ENERGEX crews have been able to restore power to more than 7,500 homes and businesses in this area.

ENERGEX continues to urge all property owners whose premises have been inundated by floodwaters to ensure they are inspected by a licensed electrician before using or reconnecting electricity.

Buildings that have suffered floodwater inundation may have significant damage to the electrical circuitry and appliances and could present potential safety risks.

It is not worth risking a life for the sake of an electrical inspection.

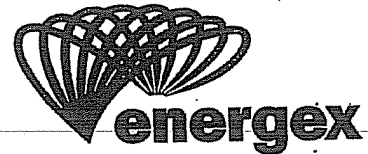
Electricians can be found in the Yellow Pages, local newspaper classifieds or by contacting the Master Electricians Association 1300 889 198 or at www.masterelectricians.com.au.

We thank customers for their patience and understanding during this natural disaster.

ENDS

For media inquiries: Office Hours (07) 3664 4420 or After Hours (07) 3664 5191

14 January 2011



positive energy

media release

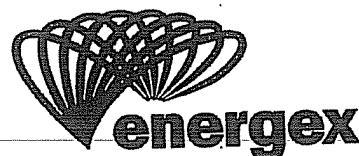
ENERGEN flood fast facts – 7.30pm

- Homes and business restored since Monday 222,600
- Current outages: 36,109
- Brisbane 24,405
- Ipswich 7,876
- Lockyer Valley 1,269
- Brisbane Valley 1,823
- Gympie/Sunshine Coast 645
- Safety: ENERGEN is asking people to have a qualified electrician inspect homes and electrical appliances that may have been water damaged
- ENERGEN thanks the people of South East Queensland for their patience during power outages
- Power outage information can be found at www.energen.com.au

ENDS

For media inquiries: Office Hours (07) 3664 4420 or After Hours (07) 3664 5191

15 January 2011 – 3.45am



media release

positive energy

ENERGEX restores power to more than 18,000 overnight

In the last 12 hours, ENERGEX has restored power to more than 18,000 homes and businesses across flood affected areas of South East Queensland, with nearly 230,000 restored since Monday.

- **TOTAL outages for South East Queensland 28,750**
 - Brisbane 18,967
 - Ipswich 6,641
 - Lockyer Valley 1,228
 - Brisbane Valley 1,823
 - Gympie/Sunshine Coast 0 (all restored)

More than 250 ENERGEX crews will continue to work from first light this morning to restore power to several thousand more homes and businesses today as floodwaters recede further and access to isolated areas becomes more possible.

Some properties not directly affected by flood waters may still be impacted by power interruptions because of the web-like structure of the electricity network - the electrical equipment supplying power to a property may have been affected.

ENERGEX is urging all property owners whose premises have been inundated by floodwaters to ensure they are inspected by a licensed electrician before using or reconnecting electricity. Buildings that have suffered floodwater inundation may have significant damage to the electrical circuitry and appliances and could present potential safety risks.

As flood waters recede and properties become accessible ENERGEX electrical officers will inspect homes, and in some cases electricity may be disconnected. In this case a notice will be left on the property switch board and the owner will be required to have the premises checked by a licensed electrician before ENERGEX can restore power. To find a local electrician to inspect homes, people can contact Master Electricians on 1300 889 198.

ENERGEX is also urging people to be careful when using electrical equipment around water when cleaning up their homes or businesses and if electrical equipment or appliances have been in contact with water, make sure they are either checked by an electrician or thrown away.

ENERGEX thanks the people of South East Queensland for their patience during power outages during and following the floods.

Power outage information can be found at www.energex.com.au.

ENDS

For media inquiries: Office Hours (07) 3664 4420 or After Hours (07) 3664 5191

ATTACHMENT CJA-9



ENERGEX ENERGEX Limited

@

@trishjb sorry Tarragindi is one of those suburbs that won't be able to come back on yet. no restoration time sorry

12 Jan [Favorite](#) [Reply](#) [Delete](#)

»



ENERGEX ENERGEX Limited

@

@balanceshift sorry Tarragindi is one of those suburbs that won't be able to come back on yet. no restoration time sorry

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»



ENERGEX ENERGEX Limited

4 of 9 subs impacted by Powerlink Sub outage r back. Remaining Rocklea, Salisb, Moorooka, Annerley, HolPark r unable I'm sorry

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»



ENERGEX ENERGEX Limited

update on Tennyson Sub outage: Sherwd, Indooro, Taringa, StLucia subs are back on. Unable to restore any further at this stage.

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»



ENERGEX ENERGEX Limited

@

@Jeebs if pwr is back on it's most likely because it was safe to do so. if that situation changes pwr situation might change, hard to say

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»



ENERGEX ENERGEX Limited

@

@jkington power is getting progressively restored. if ur outage is part of the Powerlink Sub outage it shouldn't be too far away

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ENERGEX ENERGEX Limited

@

@mixamus great to hear. hope you're all safe

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ENERGEX ENERGEX Limited

@

@mickykitsune we're hoping to progressively get the pwr back over next hour

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ENERGEX ENERGEX Limited

SEQ ur patience is appreciated. It is impossible to get pwr back on until water recedes. At this stage flood levels are still rising.

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ENERGEX ENERGEX Limited

Power out to many areas which may not be low-lying areas but are fed by subs that are in low-lying areas. Thanks for ur patience SEQ

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>>



ENERGEX ENERGEX Limited

ENERGEX thanks SEQ residents for their patience. For latest outage updates <http://bit.ly/hR1g9i> #qldfloods #thebigwet

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>>



ENERGEX ENERGEX Limited

ENERGEX monitoring Brisbane CBD as flood waters continue to rise. <http://bit.ly/18Cmib> #qldfloods #thebigwet

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>>



ENERGEX ENERGEX Limited

Full website up and running. Check for regular updates <http://bit.ly/18Cmib>

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>>



ENERGEX ENERGEX Limited

9453 customers without power in Brisbane West region. Check website for updates <http://bit.ly/8oW3IT>

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»



ENERGEN ENERGEN Limited

686 customers without power in Brisbane Sth region. Check website for updates

<http://bit.ly/8oW3IT>

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»



ENERGEN ENERGEN Limited

1423 customers without power in Brisbane Nth region. Check website for updates

<http://bit.ly/8oW3IT>

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»



ENERGEN ENERGEN Limited

@

@skulzy87 only Brisbane CBD will be affected at this stage. no other suburbs listed yet. Ipswich had some power cut tonight

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»



ENERGEN ENERGEN Limited

516 customers without power in Brisbane Nth region. Check website for updates

<http://bit.ly/8oW3IT>

11 Jan [Favorite](#)

ATTACHMENT CJA-10



Search

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Queensland Police Service's
Notes

Notes About Queensland
Police Service

Browse Notes

Friends' Notes

Pages' Notes

My Notes

My Drafts

Notes About Me

Jump to Friend or Page

Subscribe

Queensland Police Service's
Notes

Report

Energex is urging people to be mindful of electrical hazards when washing out properties. #thebigwet #qldfloods

by Queensland Police Service on Saturday, January 15, 2011 at 10:37am

Wiring behind walls, power switches and appliances still plugged into the wall may still be live presents an obvious risk of electrocution.

To minimise electrical risks while cleaning homes and businesses people should switch off the switch in the meterbox while wearing dry gloves. If they don't know how to do this call a licensed electrician or Master Electricians for advice.

Do not hose or wet inside or around the building's meterbox or switchboard.

Similarly, once finished cleaning allow the premise to dry completely before switching it back. It means staying with friends or family for the night.

Any electrical appliances that were wet during the floods should be either checked by a licensed contractor or photographed for insurance reasons and discarded.

Share

20 people like this.



Melissa Fulton Are you being strict on electricians having to have contractors to test houses.. as there is heaps of trademen waiting but don't have contractors to sign off houses!!

January 15 at 10:39am · 2 people



Jessie Badger Master Electricians Australia are coordinating the effort in conjunction with the government to restore power to flood affected homes. Your electricity provider (Energex/Ergon) can only legally reconnect the power if an electrical contractor has performed an electrical safety test. Master Electricians Australia has a hotline available for those that need to find an electrician - 1300 889 198.

January 15 at 11:06am



Kara Pope Yeah its gone everywhere dude:(

January 15 at 11:12am



Melissa Fulton I have an electrician but no contractors, what can he do??

January 15 at 11:16am



Gwynneth Jacob Got this from Energex web site "Each premise which has been partially or fully inundated by water needs to be certified by a licensed electrician (call Master Electricians 1300 889 198)." hope it helps

January 15 at 11:39am



Pauline Roberts But does it still need to be checked, if it was partially covered, but power stayed on???? That happened here.

January 15 at 4:05pm

Facebook © 2011 · English (US)

Chat (Offline)

ATTACHMENT CJA-11



flood safety

Flooding following storms can have major impacts on the electricity network and your home. While it is not always easy to be prepared for flooding, here are some important tips to stay safe.

flood planning

Contact your local council to find out if you are in a flood-prone location. If you are in a flood-prone location:

- consider relocating your switchboard and any wiring in your home that may currently be below previous flood levels
- discuss and agree on an evacuation plan
- identify possessions, equipment and fittings that are not located above possible flood levels and move if practical
- familiarise yourself with flood warning classifications and where to access information during a flood
- keep a list of emergency phone numbers on display, also store these numbers in all mobile phones.



before a flood

- ✓ | Clean gutters and downpipes so water can drain away as quickly as possible.
- ✓ | Secure loose items around your property and garden, anything that could blow around such as garden furniture and toys.
- ✓ | Where possible, move any electrical equipment to higher ground.
- ✓ | Turn off and unplug any electrical appliances that may become inundated with water.
- ✓ | Charge your laptop computer so you can check power outage information at www.energex.com.au
- ✓ | Place important documents, personal effects and vital medical supplies in a waterproof case or bag and move to a safe and easily accessible place in case you have to evacuate.
- ✓ | Secure any item that may become buoyant in your yard (gas bottles, drums, timber etc).
- ✓ | Monitor Bureau of Meteorology forecasts and warnings via website <http://www.bom.gov.au> or listen to your local emergency radio station.
- ✓ | **Register online** for early severe weather warning alerts.

during a flood

- ✓ | Consider what action you may need to take if power supplies are disconnected. Remember to turn off power at the main switch in your switchboard.
- ✓ | Do not operate electrical appliances or switches while standing in water or when you have bare feet.
- ✓ | Don't connect portable generators to the electrical wiring of your house or office unless a licensed electrician has installed a changeover switch. Appliances can be plugged directly into the generator but always read the manufacturer's instructions carefully.
- ✓ | Stay tuned to local radio for current weather advice and warnings.
- ✓ | Always follow instructions and directions from local authorities and be ready to evacuate if necessary.
- ✓ | If moving around your area in boats, be aware of reduced powerline height clearances. Flood waters will make you closer to the powerlines and power poles can also lean from the force of flood waters.

after a flood

- ✓ | Before entering your property make sure it is safe to do so.
- ✓ | Unplug all electrical appliances affected by water and have them inspected by a licensed electrical contractor before use.
- ✓ | Have a licensed electrical contractor check or isolate any parts of your electrical installation that have been affected by water - especially if the switchboard has been

submerged or if your safety switch has tripped.

- ☒ Take extra care around your switchboard. If you are in any doubt about your switchboard's safety, stay clear and call your licensed electrical contractor.
- ☒ Take care when cleaning up as fallen powerlines hidden in branches, debris or water can be extremely dangerous. Don't take chances. If you find a fallen powerline, keep well away, warn others and call ENERGEX on 13 19 62 or Triple Zero (000).

flooding & electrical equipment

Flooding following storms can have major impacts on the electricity network and your home.

While flooding brings with it many obvious hazards, the hidden danger of live electricity mixing with water is something people often don't consider, but something we must all be aware of. Severe storms often cause damage to the overhead power network, with major floods damaging underground power equipment such as transformers, and pillars.

If floodwaters rise to the level of electrical equipment, stay well away to avoid the risk of electric shock. Appliances affected by water can be extremely dangerous, and in some cases they can even be fatal, so it is important that the affected item is either thrown away or checked by an authorised electrician before it is used again.

State Emergency Service (SES)

Call 132 500 from anywhere in Queensland for emergency SES assistance in a flood or storm.

[Back to storm safety information](#)

Disclaimer

This is not an exhaustive list of all safety matters that need to be considered. Whilst care is taken in the preparation of this material, ENERGEX does not guarantee the accuracy and completeness of information.

ENERGEX will not be responsible for any loss, damage or costs incurred as a result of any errors omissions or misrepresentations in relation to the material in this document or for any possible actions ensuing from information contained above.

ATTACHMENT CJA-12

ENERGEX

Power Restoration Update



positive energy

Important information
about your electricity
restoration



Last week's floods resulted in the loss of electricity supply to more than 260,000 South East Queensland homes and businesses.

Since Monday ENERGEX crews have been working around the clock to restore power.

In the worst affected areas the electricity network will need to be repaired or even rebuilt. This is a resource intensive process which will take time.

Please call 13 62 62:

- if your home was not affected by flood water, but you are still without power
- for power restoration updates.

Power restoration update

We are aiming to have power to those homes that can be safely re-connected by Thursday afternoon.

In some areas where the electricity network has been badly damaged the restoration of power could take longer – in some cases it may be weeks.

We apologise to customers who are experiencing extended periods without power and thank you for your understanding and patience. Every effort is being made to get power back on in South East Queensland as soon as possible.

Contact ENERGEX

Loss of supply: 13 62 62

Emergency: 13 19 62

Website: energex.com.au

Follow us on twitter.com/energex

Important information about your electricity restoration

For outage information please visit energex.com.au/myarea

ENERGEX re-connection process

Properties that were not affected by flood waters

If your home was not affected by flood waters you do not need to do anything. ENERGEX crews will restore power to your property as soon as possible. Many premises that were not directly affected by flood waters have lost power because part of the electricity network that supplies that property was damaged.

Properties that were affected by flood waters

Two separate inspections must occur on a flood affected property before re-energisation. These inspections can occur in any order.

1. ENERGEX conducts the inspection of the network source attachment point (where ENERGEX's mains connect to your property), meter box and meters to the property. If a safety risk is identified (including signs of water inundation) or the property owner is not on site, ENERGEX will place a form in the meter box. The property owner will need to arrange an electrician to inspect the property.
2. A licensed electrician inspects and tests household wiring.

Residents have the option of organising their own licensed electrician to inspect the property, either before or after ENERGEX has conducted the initial electrical safety assessment. Electricians can be found in the Yellow Pages, local newspaper classifieds or by contacting the Master Electricians Association on 1300 889 198.

If the property is electrically safe, the electrician will leave a form in the meter box and will contact ENERGEX. An ENERGEX crew will reconnect power to the property as soon as practicable.

If the property is not electrically safe, the property owner will be required to arrange for repairs to be made before ENERGEX can reconnect it back to the grid.

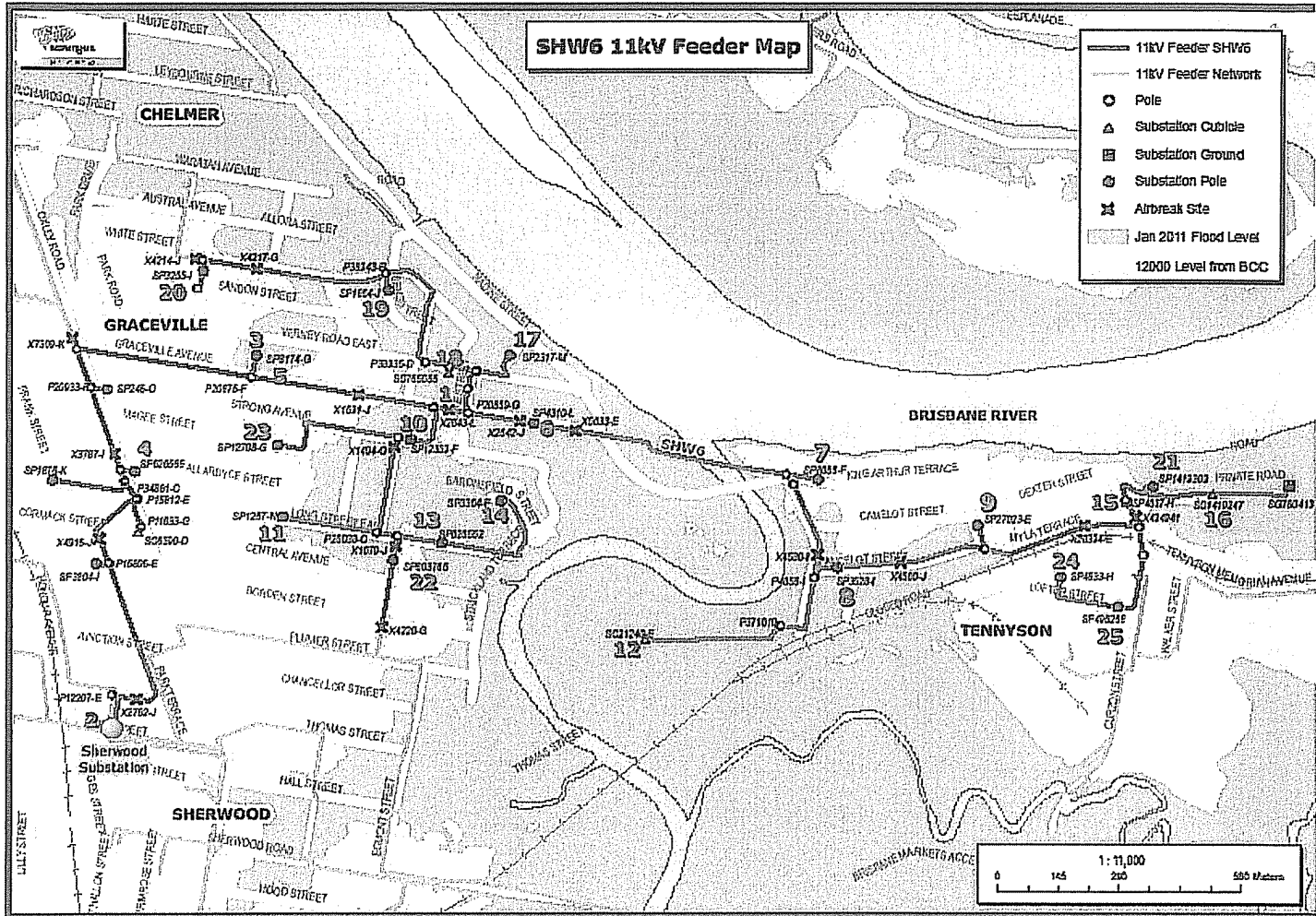


NOTE: The Master Electricians have set a recommended price of \$200 to provide the mandatory basic safety inspection service. Property owners have the option of seeking reimbursement through property insurance and disaster relief payments or meeting the full cost.

ATTACHMENT CJA-13

EXPLANATION OF SHERWOOD 11kv FEEDER

1. The map below is a geographic sketch of the 11kV feeder "Sherwood #6", with the operational designation of SHW6. The explanation below is to be read in accordance with this map. The map has been marked with numbers (1 to 25) to identify certain ENERGEX equipment discussed below.



Description of the Feeder

2. SHW6 starts at the ENERGEX Sherwood substation (operational designation SSSHW) located in Bute Street, Sherwood (map point 2). It traverses through parts of Sherwood, Graceville, and Tennyson. The route of SHW6 is shown on the map.
3. Marked on the map are the 11,000 / 415 volt transformers² that supply the local homes and business. These transformers can be either ground mounted or pole mounted. On the map the transformers are denoted with a triangle shape. The number besides each transformer is their operational designation (e.g. SP12708-G).
4. Marked on the map with an "X" are the 11kV volt switches. Most of these switches are normally closed (e.g. X2643-L, site number 1). Some switches, however, are normally open (e.g. X4214-J, site number 20). The switches which are normally open are used for

² The low voltage supply from distribution transformers is 415 volt when measured phase to phase (three phase) and 240 volt when measure phase to neutral (single phase). Most domestic customers take only a single phase supply.

alternate supply from adjacent high voltage feeders. Altering the location of the open and closed switches alters the power flow around the network. These 11kV volt switches are also used to isolate parts of the network for emergency repairs and day to day routine maintenance.

5. The ENERGEX network map has been overlayed with two flood levels. The “worst case” flood level as advised by the Brisbane City Council³ and the actual flood level⁴. As can be seen, a significant proportion of SHW6 was inside both the worst case forecast and actual flood boundaries.

Disconnection and Restoration Process (simplified account)

6. At approximately 9:41am on 12 January 2011, the 11kV switch X2643-L (Graceville Avenue, marked as point 1 on the map) was opened. This disconnected power for all transformers downstream of this isolator (i.e. map points 6, 7, 8, 9, 12, 15, 16, 17, 18, 19, 20, 21, 24, & 25).
7. At 11.00pm on 12 January 2011, the 11kV switch X1591-J (Graceville Avenue, map point 5) was opened. This disconnected power for all transformers downstream of this isolator (i.e. map points 10, 11, 13, 14, 22, & 23). This further disconnection was necessitated due to rising flood waters in these areas.
8. During the course of the remainder of the evening of 12 January 2011 and into the early hours of the 13 January 2011, further disconnection was performed on the low voltage network by opening the low voltage isolators on transformers at map points 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, & 25.
9. All of these points supply electricity to customers that were considered to be within the worst case flood level.
10. At 6:01am on 15 January 2011 after floodwaters had somewhat receded, the 11kV switch X1591-J (Graceville Avenue) was closed. This energised all transformers downstream of this isolator (i.e. map points 10, 11, 13, 14, 22, & 23). Crews then proceeded to inspect the low voltage network and restore supply where possible.
 1. About 10:21am on 16 January 2011, the 11kV switch X4530-I was opened and the switch X2643-L (Graceville Avenue) was closed. This energised all transformers downstream of this isolator up to X4530-I (i.e. map points 6, 7, 17, 18, 19 & 20). Crews then proceeded to inspect the low voltage network in these areas and restore supply where possible.
 2. Over the course of the next few days; ENERGEX crews visually inspected the network, often going house to house. ENERGEX crews inspected and/or restored electricity supply to the remaining sites by closing switch X4530-I and progressively closing low voltage isolators on all of the transformers.

³ SITREP#012 includes statement that “As of 1945hrs (11/1), all flood preparation estimates are now being based on a 12000 cumex level”

⁴ Brisbane City Council surveyed flood extend (post-flood).

Map Point	ENERGEX Plant ID	Description
1	X2643-L	11,000 volt switch
2	SSSHW	Sherwood Substation
3	SP8174-G	11,000 volt / 415 volt transformer
4	SP626565	11,000 volt / 415 volt transformer
5	X1591-J	11,000 volt switch
6	SP4310-L	11,000 volt / 415 volt transformer
7	SP8686-F	11,000 volt / 415 volt transformer
8	SP3528-I	11,000 volt / 415 volt transformer
9	SP27023-E	11,000 volt / 415 volt transformer
10	SP12359-F	11,000 volt / 415 volt transformer
11	SP1267-N	11,000 volt / 415 volt transformer
12	SC21240-E	11,000 volt / 415 volt transformer
13	SP626552	11,000 volt / 415 volt transformer
14	SP3364-F	11,000 volt / 415 volt transformer
15	SP4637-H	11,000 volt / 415 volt transformer
16	SC1419247	11,000 volt / 415 volt transformer
17	SP2317-M	11,000 volt / 415 volt transformer
18	SC765688	11,000 volt / 415 volt transformer
19	SP1864-J	11,000 volt / 415 volt transformer
20	SP3255-I	11,000 volt / 415 volt transformer
21	SP1419309	11,000 volt / 415 volt transformer
22	SP803765	11,000 volt / 415 volt transformer
23	SP12708-G	11,000 volt / 415 volt transformer
24	SP4633-H	11,000 volt / 415 volt transformer
25	SP495268	11,000 volt / 415 volt transformer

Table 1 – Cross reference of map points and associated ENERGEX equipment

ATTACHMENT CJA-14

Outage Date	Brief Description	Fault Description	Action taken Description	Majority Restored date	Majority Restored %	Total Restoration Date
10/01/2011 13:55	L/O X182754/RE1 Six Mile Creek Rd, Postmans Ridge PRG2B	L/O due to major damage to feeder during flash flooding in Murph's Creek	major damage due to flooding lengthy repairs	14/01/2011 10:21	25	17/01/2011 18:20
10/01/2011 13:56	L/O X68777-A/RE1 Ashlands Dr, Helidon Spa PRG2A	L/O due to major damage to feeder caused by floods	Repair damage when access available	16/01/2011 16:02	90	17/01/2011 11:57
10/01/2011 15:06	L/O HDN1 SSHDN/RE1012	Extreme water event on Lockyer Creek caused several poles wires and equipment at several places to collapse into the swollen creek, locking out CB1012 at HDN	Isolated several sections, breaking away fault areas, restored some supply. Remainder to stay off until waters recede and/or crews become available.	10/01/2011 22:41	20	18/01/2011 19:37
10/01/2011 15:06	L/O HDN1 SSHDN/RE1012	Extreme water event on Lockyer Creek caused several poles wires and equipment at several places to collapse into the swollen creek, locking out CB1012 at HDN	Isolated several sections, breaking away fault areas, restored some supply. Remainder to stay off until waters recede and/or crews become available.	10/01/2011 22:41	20	18/01/2011 19:37
10/01/2011 15:28	A/T SP2644-D HDN2	0-20110103988 lv poles washed away in flash flood. Refer to report 242203 for outage details	S.Robinson Made Safe. Isolated SP2644, transformer replaced 17/01/11			17/01/2011 11:58
10/01/2011 16:43	Emergency Interruption HV GTN12A	Lockout due to floods	flood repairs	11/01/2011 9:18	10	21/01/2011 13:47
10/01/2011 17:09	L/O HDN2 SSHDN/RE1022	Floods	Isolate and repair after floods	10/01/2011 18:58	50	18/01/2011 21:41
10/01/2011 20:15	A/T SP1939-C HDN2	0-20110104246 – SO_HIST(); TCST: Pole to Building; P/F:A;ID:cust reports powerlines down on property which also supply. Supply restored to transformer on 15/1/2011 12:37 see report 242203 for outage details	Other – ENERGEX – Ross Moody LV OHM gone in creek. Replumb LV OHM. New LV over creek Req.			15/01/2011 12:37
11/01/2011 7:28	Loss of Substation/Transformer SSCP	Floods	Floods	14/01/2011 18:23	100	15/01/2011 11:21
11/01/2011 7:28	Loss of Substation/ Transformer SSCP	Floods	Floods	14/01/2011 18:23	100	15/01/2011 11:21
11/01/2011 7:28	Loss of Substation/ Transformer SSCP	Floods	Floods	14/01/2011 18:23	100	15/01/2011 11:21

ATTACHMENT CJA-15

Helicopter Patrols for ENERGEX

Note: It is not possible to ascertain from the records which flights were in direct support of the Lockyer Valley versus flights for the surrounding area. The vast majority of flights were for the access to remote sites in ENERGEX's western area of supply.

Date	FLIGHT DETAILS VHINY		CLIENT	Flight		
	FROM	TO		START	STOP	RUN
01/10/2011	YCAB	YCAB	EGX	14:30	16:40	2:10
01/11/2011	YCAB	YCAB	EGX	14:38	15:08	0:30
01/11/2011	YCAB	KILCOY	EGX	15:30	17:13	1:43
01/11/2011	KILCOY	YCAB	EGX	17:13	17:43	0:30
01/12/2011	YCAB	YTWB	EGX	8:55	11:32	2:37
01/12/2011	YTWB	HELI	EGX	12:05	13:25	1:20
01/12/2011	HELI	YCAB	EGX	14:40	17:00	2:20
13/1/2011	YCAB	YCAB	EGX	9:22	9:50	0:28
13/1/2011	YCAB	YRED	EGX	10:20	10:44	0:24
13/1/2011	YRED	YCAB	EGX	11:10	11:34	0:24
13/1/2011	YCAB	YAF	EGX	11:45	14:10	2:25
13/1/2011	YAF	YCAB	EGX	15:35	17:18	1:43
14/1/2011	YCAB	ELSEY	EGX	9:07	11:37	2:30
16/1/2011	YCAB	KCY2	EGX	8:41	9:03	0:22
16/1/2011	KCY2	CONANDALE	EGX	9:43	10:08	0:25
16/1/2011	CONANDALE	KCY2	EGX	10:35	11:15	0:40
16/1/2011	KCY2	TGW3	EGX	12:05	12:30	0:25
17/1/2011	YCAB	TGW3	EGX	8:13	8:42	0:29
17/1/2011	TGW3	TGW3	EGX	8:53	9:30	0:37
17/1/2011	TGW3	TGW3	EGX	9:58	11:25	1:27
19/1/2011	YCAB	RV	EGX	9:40	10:12	0:32
19/1/2011	RV	LOWOOD	EGX	11:15	12:43	1:28
19/1/2011	LOWOOD	FERNVALE	EGX	14:35	16:12	1:37
19/1/2011	FERNVALE	RV	EGX	17:07	17:25	0:18
20/1/2011	YCAB	LOWOOD	EGX	8:25	9:00	0:35
20/1/2011	LOWOOD	LOWOOD	EGX	10:30	12:15	1:45
20/1/2011	LOWOOD	LOWOOD	EGX	13:58	14:59	1:01
20/1/2011	LOWOOD	LOWOOD	EGX	15:30	16:35	1:05
21/1/2011	ELSEY	YCAB	EGX	6:10	6:30	0:20
21/1/2011	YCAB	FERNVALE	EGX	7:57	8:32	0:35
21/1/2011	FERNVALE	FERNVALE	EGX	9:05	10:02	0:57
21/1/2011	FERNVALE	FERNVALE	EGX	10:22	10:45	0:23
21/1/2011	FERNVALE	DARRA	EGX	11:19	11:45	0:26
21/1/2011	DARRA	DARRA	EGX	12:01	14:50	2:49
21/1/2011	DARRA	DARRA	EGX	15:05	15:12	0:07
21/1/2011	DARRA	DARRA	EGX	15:25	18:19	2:54
23/1/2011	YCAB	FERNVALE	EGX	7:47	8:40	0:53
23/1/2011	FERNVALE	FERNVALE	EGX	12:05	13:25	1:20
23/1/2011	FERNVALE	YCAB	EGX	13:48	14:22	0:34

23/1/2011	FERNVALE	FERNVALE	EGX	13:05	13:35	0:30
23/1/2011	FERNVALE	YCAB	EGX	13:48	14:25	0:37

Date	FLIGHT DETAILS VALIDX		CLIENT	Flight		
	FROM	TO		START	STOP	RUN
01/11/2011	YCAB	YTWG	EGX	15:40	17:00	1:20
01/11/2011	YTWG	GATTON	EGX	17:55	18:18	0:23
01/11/2011	GATTON	POSTMANS	EGX	18:45	18:58	0:13
01/12/2011	GATTON	RV	EGX	5:38	6:08	0:30
01/12/2011	RV	MT CRSBY	EGX	6:08	6:44	0:36
01/12/2011	MURPHY CR	MT CRSBY	EGX	8:00	8:27	0:27
01/12/2011	TOOGOO	YBAF	EGX	9:38	9:50	0:12
01/12/2011	POSTMANS	TENNIS CN	EGX	10:14	11:18	1:04
01/12/2011	TENNIS CN	LOWOOD	EGX	12:58	13:24	0:26
01/12/2011	PATROL	YBAF	EGX	13:41	14:28	0:47
01/12/2011	YCAB	LOWOOD	EGX	15:25	17:40	2:15
01/12/2011	YCAB	YCAB	EGX	17:40	18:09	0:29
13/1/2011	YCAB	YCAB	EGX	8:58	9:25	0:27
13/1/2011	YCAB	YCAB	EGX	9:25	11:50	2:25
13/1/2011	YCAB	YBAF	EGX	11:50	12:50	1:00
13/1/2011	YBAF	YCAB	EGX	13:38	16:00	2:22
13/1/2011	YCAB	YCAB	EGX	16:20	17:21	1:01
14/1/2011	YCAB	YGAS	EGX	6:55	7:27	0:32
14/1/2011	YGAS	YCAB	EGX	7:50	9:17	1:27
14/1/2011	YCAB	MURPHY CR	EGX	9:38	10:17	0:39
14/1/2011	MURPHY CR	TOOGOO	EGX	10:40	11:42	1:02
14/1/2011	TOOGOO	POSTMANS	EGX	12:15	13:31	1:16
14/1/2011	POSTMANS	YCAB	EGX	14:28	15:59	1:31
18/1/2011	YCAB	PATROL	EGX	12:32	13:35	1:03
18/1/2011	PATROL	YCAB	EGX	13:28	14:57	1:29
18/1/2011	YCAB	YCAB	EGX	15:45	16:25	0:40
20/1/2011	ELSEY	EMU BRG	EGX	7:20	7:44	0:24
20/1/2011	EMU BRG	TOOGOO	EGX	7:55	8:32	0:37
20/1/2011	TOOGOO	LINVILLE	EGX	8:50	9:37	0:47
20/1/2011	LINVILLE	LINVILLE	EGX	9:48	11:13	1:25
20/1/2011	LINVILLE	LINVILLE	EGX	11:28	12:49	1:21
20/1/2011	LINVILLE	TOOGOO	EGX	13:20	15:32	2:12
20/1/2011	TOOGOO	LINVILLE	EGX	16:28	16:38	0:10
20/1/2011	LINVILLE	YCAB	EGX	16:38	17:24	0:46

Date	FLIGHT DETAILS VH/MDE		CLIENT	Flight		
	FROM	TO		START	STOP	RUN
19/1/2011	YCAB	YBAF	EGX	9:50	10:32	0:42
19/1/2011	YBAF	RV	EGX	11:02	11:18	0:16
19/1/2011	RV	WORK SITE	EGX	12:18	12:50	0:32
19/1/2011	YCAB		EGX	15:20	16:20	1:00
19/1/2011	0	YCAB	EGX	16:20	16:57	0:37
20/1/2011	YCAB	YBAF	EGX	9:52	10:22	0:30
20/1/2011	YBAF	WIVENHOE	EGX	11:09	11:40	0:31
20/1/2011	WIVENHOE	WIVENHOE	EGX	12:36	12:45	0:09
20/1/2011	WIVENHOE	WIVENHOE	EGX	12:45	13:02	0:17
20/1/2011	WIVENHOE	YTWG	EGX	14:02	14:26	0:24
20/1/2011	YTWG	LINVILLE	EGX	14:26	15:34	1:08
20/1/2011	LINVILLE	YCAB	EGX	16:40	17:20	0:40
21/1/2011	YCAB	LWD1	EGX	8:00	9:05	1:05
21/1/2011	LWD1	LWD1	EGX	10:25	10:55	0:30
21/1/2011	LWD1	LWD1	EGX	11:15	11:35	0:20
21/1/2011	LWD1	YCAB	EGX	17:15	18:05	0:50
22/1/2011	YCAB	FERNVALE	EGX	8:10	9:02	0:52
22/1/2011	FERNVALE	FERNVALE	EGX	9:09	9:47	0:38
22/1/2011	FERNVALE	FERNVALE	EGX	11:37	12:15	0:38
22/1/2011	FERNVALE	FERNVALE	EGX	12:53	13:13	0:20
22/1/2011	FERNVALE	LWD1	EGX	13:20	13:44	0:24
22/1/2011	LWD1	LWD1	EGX	14:20	14:37	0:17
22/1/2011	LWD1	LWD1	EGX	15:05	16:06	1:01
22/1/2011	LWD1	LWD1	EGX	18:07	18:42	0:35

Date	FLIGHT DETAILS VH VJR		CLIENT	Flight		
	FROM	TO		START	STOP	RUN
01/10/2011	YCAB	ELSEY	EGX	11:30	11:42	0:12
01/10/2011	ELSEY	ELSEY	EGX	12:40	13:32	0:52
01/10/2011	ELSEY	MINOR	EGX	14:20	16:43	2:23
01/10/2011	MINOR	YCAB	EGX	17:55	17:59	0:04
01/11/2011	YCAB	YCAB	EGX	10:25	11:50	1:25
01/11/2011	YCAB	YCAB	EGX	12:55	15:02	2:07
01/11/2011	YCAB	MINOR	EGX	15:31	18:20	2:49
01/12/2011	YCAB	WOODFORD	EGX	8:15	9:15	1:00
01/12/2011	WOODFORD	KILCOY	EGX	9:17	9:23	0:06
01/12/2011	KILCOY	YTWG	EGX	9:25	11:24	1:59
01/12/2011	YTWG	YTWG	EGX	11:34	12:05	0:31
01/12/2011	YTWG	YTWG	EGX	12:10	13:24	1:14
01/12/2011	YTWG	YTWG	EGX	13:24	14:45	1:21
01/12/2011	YTWG	YTWG	EGX	14:46	15:03	0:17
01/12/2011	YTWG	YTWG	EGX	15:10	15:30	0:20
01/12/2011	YTWG	YCAB	EGX	15:31	18:00	2:29
13/1/2011	YCAB	YCAB	EGX	9:14	10:45	1:31
13/1/2011	YCAB	YTWG	EGX	13:54	15:02	1:08
13/1/2011	YTWG	KILCOY	EGX	15:18	18:09	2:51
14/1/2011	YCAB	YTWG	EGX	9:04	12:00	2:56
14/1/2011	YTWG	YCAB	EGX	12:06	14:42	2:36
14/1/2011	YCAB	RV	EGX	14:55	17:25	2:30
16/1/2011	YCAB	MT CRSBY	EGX	16:36	18:44	2:08
17/1/2011	YCAB	RV	EGX	14:24	17:22	2:58
18/1/2011	YCAB	EGX PAD	EGX	9:28	10:40	1:12
18/1/2011	EGX PAD	YCAB	EGX	10:55	11:22	0:27
18/1/2011	YCAB	YKIL	EGX	11:32	12:16	0:44
18/1/2011	YKIL	YCAB	EGX	13:12	13:35	0:23
18/1/2011	YCAB	YCAB	EGX	15:55	16:30	0:35
19/1/2011	YCAB	RV	EGX	9:10	9:40	0:30
19/1/2011	RV		EGX	9:40	12:35	2:55
19/1/2011	0	YTWB	EGX	12:35	13:04	0:29
19/1/2011	YTWB		EGX	13:58	15:55	1:57
19/1/2011	0	YCAB	EGX	15:55	16:25	0:30
20/1/2011	YCAB	ELSEY	EGX	6:43	7:27	0:44
20/1/2011	ELSEY	LWD1	EGX	8:25	9:02	0:37
20/1/2011	LWD1	LWD1	EGX	11:40	12:25	0:45
20/1/2011	LWD1	LWD1	EGX	12:10	13:22	1:12
20/1/2011	LWD1	YCAB	EGX	15:55	16:37	0:42
21/1/2011	YCAB	DANS MATE	EGX	6:35	7:00	0:25
21/1/2011	DANS MATE	LINVILLE	EGX	10:00	14:45	4:45
21/1/2011	LINVILLE	YCAB	EGX	15:46	16:20	0:34