

ELECTRICAL INDUSTRY
Network Quality and Reliability of Supply Code 2005



Rottnest Island Western Australia

Annual Report 2006 / 2007

Prepared by Rottnest Island Authority

CONTENTS

INTRODUCTION

ROTTNEST ISLAND POWER

REPORTS – Code Schedule 1 – Information to be published

Clause 4 and 10

Clause 5 - Significant interruptions to small use customers

Clause 6 and 10 – Total number of complaints received

Clause 7 and 10 – Number of customer complaints in each discrete area

Clause 8 and 10 – Total amount spent on addressing complaints

Clause 9 and 10 – Payments to customers for failure to meet certain standards

Clause 11, 12 and 13(a) – Average length of interruption of supply to customer premises in minutes (CAIDI)

Clause 11, 12 and 13(b) – Average number of interruptions of supply to customer premises (SAIFI)

Clause 11, 12 and 13(c) – Average percentage of time that electricity has been supplied to customer premises

Clause 11, 12 and 13(d) – Average total length of all interruptions of supply to customer premises in minutes (SAIDI)

Clause 14(a) Rottnest Power – Average length of interruptions – Frequency distribution

Clause 15(a) – CAIDI frequency Graph - Not applicable

Clause 14(b) – Rottnest Power – Number of Interruptions – Frequency Distribution – Not applicable

Clause 15(b) – SAIFI frequency graph – Not applicable

Clause 14(d) – Rottnest Power – Total length of all interruptions – Frequency Distribution – Not applicable

Clause 15(d) – SAIDI frequency graph – Not applicable

INTRODUCTION

This report has been produced to meet the requirements of the Electricity Industry (Network Quality and Reliability Supply) Code 2005.

During the reporting year, the Rottnest Island Authority has made no significant changes to the power distribution network, however, some upgrades to minor distribution boards has taken place to support the overall power upgrade concluded in 2005/2006.

The Rottnest Island Authority, as a result of recommendations in the Rottnest Island Taskforce Report, is considering tending for expressions of interest to provide management and operational services of the power utility within the next reporting period.

The Rottnest Island Authority continues to maintain and periodically review its “Electrical License” requirements to ensure the power generation and the network system and its customers’ electrical installations and apparatus are safe for use by employees, customers and the public.

Major Event Days

No major events day for the reporting period.

REPORTS – Code Schedule 1 – Information to be published

Clause 4 and 10

Clause 4(a) Number of Breaches of each provision of the Code:

Quality of Supply	2004/05	2005/06	2006/07
Voltage Fluctuations	NA	UR	UR
Harmonics	NA	UR	UR

NA = Not applicable as the code did not come into operation until 1 January 2006.

UR = Under Review. Although there is a process in place to investigate and correct voltage harmonics complaints, it did not include the recording of out of limits events.

Clause 4(b) Remedial action taken for each provision

Voltage Fluctuations

Location	Action Taken
UR	UR

Harmonics

Location	Action Taken
UR	UR

Clause 5 – Significant Interruptions to small use customers

Clause 5(a)

Number of premises that experienced interruptions greater than 12 hours continuous = 0

Clause 5(b)

Number of premises that experienced more than 16 interruptions = 98

Note: Problems with the new generator circuit breaker settings increased the number of interruptions. Appropriate setting adjustments have been made

Number of interruptions and duration, where duration is greater than 12 hours:

DATE	CUSTOMERS	DURATION (mins)	COMMENT
N/A	0	0	N/A

Clause 6 and 10 – Total number of complaints received

No customer complaints have been directed to Transfield with regard to the Network Quality or Reliability of Supply between the periods listed below.

2004/05	2005/06	2006/07
N/A	0	0

Clause 7 and 10 – Number of complaints in each discrete area:

DISCRETE AREA	2004/05	2005/06	2006/07
Other areas of the State	N/A	0	0

Clause 8 and 10 – Total amount spent addressing complaints

2004/05	2005/06	2006/07
N/A	N/A	N/A

Clause 9 and 10 – Payments to customers for failure to meet certain Standards

The number and total payments made to customers for failure to give required notice of interruption:

	2004/05	2005/06	2006/07
Number	N/A	0	0
Cost	N/A	0	0

The number and total payments made to customers for supply interruptions exceeding 12 hours

	2004/05	2005/06	2006/07
Number	N/A	0	0
Cost	N/A	0	0

Clause 11, 12 and 13(a) – Average Length of interruption of Supply to Customer Premises in Minutes (CADI)

Discrete area	2004/05	2005/06	2006/07	AVERAGE
Rottnest Island	41.09	9.9	9.65	20.21

EFFECT of MAJOR EVENT DAYS

There were no major event days effected by outages within the reporting period.

Clause 11, 12 and 13(b) – Average number of interruptions of Supply to Customer Premises (SAIFI)

Discrete area	2004/05	2005/06	2006/07	AVERAGE
Rottnest Island	4.33	4.66	22.01	10.33

Note: Data for 2002/2003 and 2003/2004 is not available
 Problems with the new generator circuit breaker settings increased the number of interruptions.
 Appropriate setting adjustments have been made

Clause 11, 12 and 13(c) – Average Percentage of Time that electricity has been supplied to Customer Premises (SAIFI)

Discrete area	2004/05	2005/06	2006/07	AVERAGE
Rottnest Island	98.81	98.72	99.87	98.13

Clause 11, 12 and 13(d) – Average Total length of all interruptions of supply to customer premises in Minutes (SAIDI)

Discrete area	2004/05	2005/06	2006/07	AVERAGE
Rottnest Island	398	99	212.42	236.47

Clause 14 (a, b, c) and 15 – Percentile values for each customer premise and a graph.

Information not provided due to the minimal number of customers and no perceived benefit of this information.