GUYANA POWER & LIGHT INC.

Finance ALUISION

SCHEDULE 2:

OPERATING STANDARDS AND PERFORMANCE TARGETS 2004 - 2005

DECEMBER 2004



Schedule 2 Operating Standards & Performance Targets

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Definitions:

"Standards and Targets"

Are the operating standards and performance targets as set out in this Schedule, and as modified from time to time in accordance with this Schedule.

"Revised Interim Standards" are the Standards and Targets approved from time to time by the Minister pending the development of Final Standards. The Standards and Targets set out in this schedule are to be in effect from January 01, 2004 to December 31, 2005 and replace the Preliminary Standards. Until Final Standards are developed and put into effect, Revised Interim Standards are to be submitted to the Minister for approval no later than November 1 each year.

'Final Standards"

"Grandfathered Plant"

are the Standards and Targets to be developed and put into effect for the remaining period of the licence at a date to be agreed by the Minister.

is Plant which will not need to comply with the Standards and Targets.

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1. Introduction

The Operating Standards and Performance Targets attached to the Licence specified standards and targets that were to be achieved by GPL, subject to "best efforts" and the need to preserve GPL's financial integrity.

Despite the company's best efforts it was unable to complete its major capital expansion programme. This resulted in the company being unable to meet all the standards and targets included in the Licence. Further, the investor withdrew from the company in March 2003 and the Management Contract was terminated at the end of April 2003. This resulted in material deterioration of the financial and other resources necessary to achieve the standards and targets as set out in the original Schedule 2.

Accordingly the "Revised Interim Standards" have been developed to reflect the position of the Company at that time, restrictions currently faced in obtaining financing on commercial terms as a wholly owned Government entity and limitations to self generated funds as a result of the need to address tariffs in a manner to avoid losing customers to self-generation, despite current licence provisions.



The achievement of these standards and targets is based on the "best efforts" of the company and the need to preserve the company's financial integrity. The non-achievement of these standards shall not be grounds for any legal challenge by any customer or class of customers with respect to the service provided by the company.

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Until the Final Standards are approved by the Minister, the Revised Interim Standards then in effect shall continue to apply in subsequent years.

2 Technical and Operating Standards

2.1 GPL Plant

All existing Plant as at the Effective Date, October 01, 1999 is considered Grandfathered Plant. All of the generating property owned by GEC and operated by GPL is also considered as Grandfathered Plant for the purposes of this Schedule.

3 Performance Targets and Customer Services

Benchmark targets against which progress can be monitored are outlined below.

Category	Analysis and Projections							
Customer Interruptions	Targets for System Average Interruption Frequency Index (SAIFI) and System Average Interruption Duration Index (SAIDI) proposed for 2004-05 are: SAIFI = <u>Total Number of Customer Interruptions</u> Total Customers Served SAIDI = <u>Total Customer Hours of Interruptions</u> Total Customers Served							
	· · · · ·	2004	2005					
	SAIFI	130	120					
	SAIDI	225	200					
Losses ¢	The level of losses The total projected							
	included below: The respective years.							
,	included below: Th							
	included below: Th respective years.	2004 39	2005 37	hese targets in la				
C ⁷	included below: Th respective years.	2004 39 Ty = Total Avail	2005 37	hese targets in la				
Average Availability	included below: Th respective years.	2004 39 Ty = Total Avail	2005 37 able Hours for	hese targets in la				

Quality of Supply Standards



Category

Voltage &

Frequency

Regulation

NORSEAT :	
	Analysis and Projections
	While the original expectation was that new transmission and distribution networks would be introduced to reduce voltage and frequency swings and remediate existing deficiencies due to the need to focus on reducing losses and minimise tariff increases T&D projects have been deferred.

As such GPL will seek to maintain, in stable conditions voltages of \pm 6% and following a system disturbance \pm 10% of the prescribed voltage and frequency regulation of \pm 0.1 Hz. during normal operating conditions.

Financial Standards

Category	Analysis and P	rojections						
Accounts Receivable	The status of GPL accounts receivable is estimated from a joint GPL / GEC Debtors' Ledger. Work is in progress to permit a formal split of the Ledger. Pending finalisation of this split, the quoted figures are provisional and net of bad debt expenses.							
	Net	2004	2005					
	Days	75	69					
Accounts Payable	The following targets for accounts payable are in relation to total purchases.							
		2004	2005					
	Days	50	48					
Bad Debt	The targets for bad debt expenses are in relation to annual sales.							
Expense		2004	2005					
	Days	6.0%	6.0%					
Meter reading and Customer Billings	Meter Readings The target is to issue 85% of all bills based on actual meter readings. The current performance is around 80%. Large Consumers – Maximum Demand Consumers The target is to issue bills within 7 days of meter reading Domestic and Small Business Consumers The target is to issue bills within 30 days of meter reading. Weighted by value and based on a sample, the current performance is estimated at 32 days.							
		2004	2005					
	Days	32	30					

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Customer Service Standards

These standards are difficult to monitor in the absence of a modern billing system since delays occur in customer payment and fulfillment of other conditions. Comprehensive information is not therefore available regarding current performance.

As a general proposition, the following targets should be treated as met if 85% or more of the cases are completed by or within the target. This is to cater for exceptional cases where more complexity arises. Days quoted are working days unless otherwise stated.



All targets assume that the customer has met all the requirements of the Standard Terms and Conditions prior to work starting.

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Category	Analysis and Projections							
New Connections	Where prim for provisio (mains netw Where only commercial All these tim met by the c Due to cash available wl may be affee customers in	arry or second n of comment york only). a service a case and 1 mes assume customer p constraint nen require cted. (Thi n such case	rior to work and s and timing, of ed to provide s s has affected as and advise w	ks are require and 12 weeks osed that these wolved, 10 – ng days the ta irements of th ad that the cu GPL, from tin upply. As su service delive when supply i	s for a new 1 se be change 15 working rget in the re- he Standard' stomer is re- ne to time, n hech, the abili- ery during 20 is likely to be	esidential st days is the t esidential ca Terms and C ady for supp nay not have ty to achieve 002.) GPL e provided.	ab-division target in the se. Conditions are bly. e all materials e these targets will inform	
	UAEP is s separate major programme and the above standards are not applicable. UAEP targets will be defined within that Project's work schedules.							
\	Be		2004	2005			1	
	Primary of seco	ondary netwo	rk required (perio	d in weeks after	ST&C conditio	ons fulfilled)		
	Comm. service	St. Bands Mark Sampling, with Exceptions and the Mark Mark St. M Art St. Mark St. Ma	10	10				
	Residential subdivision	and the second second second second second	12	12				
	Primary or secondary network NOT required (period in days after ST&C conditions fulfilled)							
	Comm. service		10-15	10-15	\Box			
	Residential services	-	15-20	15-20	0			
Reconnections \$	Where a ser working day cases on the it would be t Due to cash available wh may be affec customers in	vice and / vs in the c assumption reated as a constraints en require cted. (This a such case	ection is within or meter is re- ommercial ca- on that there is new supply. s and timing, C d to provide su s has affected s and advise w onitor these st	equired for rese and 15 we so no requirem GPL, from tim upply. As successful to the supply is	orking days tent for addi- ne to time, m ch, the abilit very during s likely to be	for resident tional load in hay not have y to achieve 2002.) GPI provided.	tial – in both n which case e all materials these targets L will inform	
			2004	2005			T	
	Reconnection, s	ervice and m	eter in place (day:	s after ST&C rec	quirements met))		
	In G'town		2	2				
	Elsewhere		2	2				
		ervice and m	eter not in place (requirements i	net)		
L			1					
	Commercial		10	10	the start		and the discount of the second states	

	min'	Establishing	New Party
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26	10.65		1 1 1 1 1
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Category	Analysis and Projections								
Billing Complaints and Queries	¹ The current target is to respond within 5 working days. Many queries are addressed at GPL counters immediately. Queries in writing are generally acknowledged on receipt and followed up as quickly as possible.								
	It is proposed that an acknowledgement be issued for written complaints within 3 working days. If the complaint relates to a billing anomaly does not require a site visit to resolve, it is proposed that an explanation be provided within 7 working days of receipt of the original complaint. If the complaint relates to a legal dispute and/or involving the Public Utilities Commission it is proposed that an explanation be provided within 40 working days of receipt of the original complaint. Full achievement of this standard and the ability to monitor performance is contingent on implementing the new billing system to enable the causes of certain queries to be eliminated (e.g. to facilitate explanations of billing adjustments in the bill, to reduce time from meter reading to billing, etc.).								
	Days	2004	2005						
	Acknowledge	3	3						
	Billing queries- No Site Visit	7	7						
	Legal queries- No Site Visit	40	35						
	All queries -Site Visit	40	35						

Other Standards

Category	Analysis and P	Analysis and Projections						
Meter Replacement	 Mass meter replacements will generally be associated with the loss reduction campaign. Meters will also be replaced, as necessary, following investigation of individual customer complains. The target for replacing an individual customer's meter, once this is determined by GPL as necessary following a complaint, is 10 working days on average for a commercial meter and 8 working days on average for a residential for 90% of cases. Due to cash constraints and timing, GPL, from time to time, may not have all materials available when required to provide supply. As such, the ability to achieve these targets may be affected. (This has affected service delivery during 2002.) GPL will inform customers in such cases and advise when supply is likely to be provided. 							
	Av. Work Days		2004	2005				
4	Commercial		10	10				
¢.	Residential		8	8				
Local Supplier Program	Residential88GPL has worked with a number of local suppliers to provide new services. These include design and manufacture of fibreglass meter enclosures; galvanised steel CT enclosures; design and manufacture of modular office furniture; training in network construction and maintenance skills; syllabus development for employee training; major meter installation refurbishment; etc.GPL purchases poles and other wood products from local suppliers, as well as local services (e.g. vehicle hire, scrap removal, site maintenance, building construction, etc.). Given the nature of GPL's business, most purchases are for fuel and equipment that 							

OPERATING STANDARDS AND PERFORMANCE TARGETS 2004 - 2005

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Category	Analysis and Projections
	GPL will continue to work with local suppliers to develop opportunities for local business to work with GPL provided that products and services can be locally provided to quality, price and timeliness standards.

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Schedule 2 Operating Standards & Performance Targets

Definitions:

"Standards and Targets"

"Revised Interim Standards" Are the operating standards and performance targets as set out in this Schedule, and as modified from time to time in accordance with this Schedule.

are the Standards and Targets approved from time to time by the Minister pending the development of Final Standards. The Standards and Targets set out in this schedule are to be in effect from January 01, 2007 to December 31, 2009 and replace the Revised Interim Standards for 2004 – 2005. Until Final Standards are developed and put into effect, Revised Interim Standards are to be submitted to the Minister for approval no later than November 1 2009.

"Final Standards"

are the Standards and Targets to be developed and put into effect for the remaining period of the licence at a date to be agreed by the Minister.

"Grandfathered Plant"

is Plant which will not need to comply with the Standards and Targets.

1. Introduction

The Operating Standards and Performance Targets attached to the Licence, specified standards and targets that were to be achieved by GPL, subject to "best efforts" and the need to preserve GPL's financial integrity.

Despite the company's best efforts it was unable to complete its major capital expansion programme. This resulted in it being unable to meet all the standards and targets included in the Licence. The Company continues to pursue various initiatives to realize the financing necessary to implement its capital programme. The return in April 2003 to full Government ownership imposed HIPIC conditionality on borrowing which severely limited the list of potential lenders. Sustained sharp increases in fuel prices, over the past three years, which have been largely absorbed by the Company has depleted its cash flows to the extent that funding for major capital works from internal cash flows was impossible.



Accordingly the "Revised Interim Standards" have been developed to reflect the position of the Company at this time, restrictions currently faced in obtaining financing on commercial terms as a wholly Government entity and limitations to self generated funds as a result of the need to address tariffs in a manner to avoid losing customers to selfgeneration, despite current licence provisions.

The achievement of these standards and targets is based on the "best efforts" of the company and the need to preserve its financial integrity. The non-achievement of these standards shall not be grounds for any legal challenge by any customer or class of customers with respect to the service provided by the company.

Until the Final Standards are approved by the Minister, the Revised Interim Standards then in effect shall continue to apply in subsequent years.

2 Technical and Operating Standards

2.1 GPL Plant

All existing Plant as at the Effective Date, October 01, 1999 is considered Grandfathered Plant. All of the generating property owned by GEC and operated by GPL is also considered as Grandfathered Plant for the purposes of this Schedule.

3 Performance Targets and Customer Services

Benchmark targets against which progress can be monitored are outlined below.

Category										
0 0	Analysis and Projecti	Analysis and Projections								
Customer	Targets for System Av	Targets for System Average Interruption Frequency Index (SAIFI) and								
Interruptions	System Average Interr	uption Duratio	n Index (SA)	(DI) propose	d for 2007 -	- 2009 are:				
		SAFI = <u>Total Number of Customer Interruptions</u> Total Customers Served SADI = <u>Total Customer Hours of Interruptions</u> Total Customers Served								
		2007	2008	2009						
	SAIFI	130	140	125						
	SAIDI	225	250	200						
Losses	The level of losses at I 38.4% and Dec. 2006 projected losses as a p below: The Company the respective years.	was 35.1% of g ercent of gross	gross generat generation, i	ion net of au net of auxilis	ixiliary use. ary use are i	The total ncluded				

Quality	of	Supply	<u>Standards</u>



Category	Analysis and Projections								
		2007	2008	2009					
	%	32.8	28.7	22.1	1				
Average Availability	All generating plant as at October 1 st , 1999 (Effective Date) is considered as Grandfathered Plant and is not included in the computation of this standard. Six new 1.6MW and four used 1.4MW mobile high speed generating units have been acquired since the Effective Date and while these are primarily designed for peak shave duty they are essentially operated base-load and therefore experience more forced outages. This standard applies to the seven remaining units in this mobile fleet. Average Availability = <u>Total Available Hours for all Units</u> Number of Units X Hours in Period								
		2007	2008	2009					
	Availability, %	75%	75%	85%					
Voltage & Frequency Regulation	have been construct deficiencies but du deferred. The nom the Standard Term GPL will seek to r	% The original expectation was that new transmission and substation facilities would have been constructed to reduce voltage and frequency swings and remediate existing deficiencies but due to the ever increasing price of fuel T&D projects have been deferred. The nominal voltage and frequency levels are indicated in paragraph 3.6 of the Standard Terms & Conditions. GPL will seek to maintain, in stable conditions voltages, of ±6% of the incominal voltage and ± 10% following a system disturbance and frequency of ± 0.2 Hz of the							

Financial Standards

Category	Analysis and Projections								
Accounts Receivable	statements. The	PL accounts receivable quoted figures are ne nancial statements the les.	t of provision	n for doubtful	debts. Unlik	e the			
	Net	2007	2008	2009 -					
	Days	63	60	60					
Accounts Payable		PL's Creditors offer days. The determina							
		• 2007	2008	2009					
				40	in a				

Bad Debt Expense	maintained abov applicable to the 3% in 2005.	has improved signified e 98% since. Bad D accounting period (y se = 3% of sales for	ebt Expense year) and has	is the estimated	amount o	f bad debt
		2007	2008	2009	-	
	Days	3.0%	3.0%	3.0%		

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			12000		

Meter reading and Customer	Meter Readings The target is to issue 85% of non-MD bills based on actual meter readings and 95% of MD bills based on actual meter readings.							
Billings	Large Consumers – Maximum Demand Consumers The target is to issue bills within 7 days of meter reading Domestic and Small Business Consumers							
	The target is to issue	2007	2008	2009	lately.			
	Days Non-MD	32	30	30				
	Days MD	7	7	7				

Customer Service Standards

These standards are difficult to monitor in the absence of a modern billing system since delays occur in customer payment and fulfillment of other conditions. Comprehensive information is not therefore available regarding current performance.

As a general proposition, the following targets should be treated as met if 85% or more of the cases are completed by or within the target. This is to cater for exceptional cases where more complexity arises. Days quoted are working days unless otherwise stated. All targets assume that the customer has met all the requirements of the Standard Terms and Conditions prior to work starting.

Category	Analysis and	Analysis and Projections								
New Connections	Where prima for provision (mains netwo Where only a	These standards deal with new supplies. Where primary or secondary networks are required, the current targets are 10 weeks for provision of commercial service and 12 weeks for a new residential sub-division (mains network only). It is not proposed that these be changed. Where only a service and meter is involved, $10 - 15$ working days is the target in the commercial case and $15 - 20$ working days the target in the residential case.								
	All these tim met by the cu Due to cash available wh may be affect	es assume ustomer pri constraints en required ted. GPL	that the requir for to work an and timing, C I to provide su	rements of the d that the cus SPL, from tim spply. As successful to the stomers with	e Standard T stomer is rea ne to time, m ch, the abilit in the presc	Ferms and Conditio dy for supply. hay not have all ma y to achieve these t ribed target period	terials argets			
			2007	2008	2009					
	Primary or secondary network required (period in weeks after ST&C conditions fulfilled)									
			k lednien (bei jo	d in weeks after	ST&C conditio	ns ruiniled)				
	Comm. service	•	10	d in weeks after 10	ST&C condition	ns fulfilled)				
		•	1							
	service Residential subdivision	- ndary networ	10	10	10 12					

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Category	Analysis and Projectio	ns	ŧ						
	Residential - services	15-20	15-20	15-20					
Reconnections	The current target calls It is proposed that the s and equipment availabl In Georgetown city, it working days followin Standard Terms and Co only a simple connection Where a service and / o working days in the co cases on the assumption it would be treated as a To fully achieve and n	tandards be more than the to GPL and the sis targeted that g the day on we conditions (ST& on is necessary for meter is requirement on that there is a new supply.	odified to tak available man t a reconnect thich the cust &C) - where uired for re-c and 15 work no requirement	e account of l hagement and ion take place omer meets th the service an onnection, the ting days for r ent for additio	supervisory resources no later than 2 full he requirements of the d meter is in place and target would be 10 residential – in both nal load in which case				
		2007	2008	2009					
•	Reconnection, service and meter in place (days after ST&C requirements met)								
	In G'town	2	2	1					
	Elsewhere	2	2	1					
	Reconnection, service and meter not in place (days after ST&C requirements met)								
	Commercial	10	10	10					
	Residential	15	15	15					
Customer Notification	This standard relates to all customers to under application of The Firs Standard Terms and C GPL will endeavor to daily newspaper of wi methodology for deter working days before th For individual customer regarding the justificat five working days follow	stand adjustme st Schedule of onditions. (a) notify all or a de circulation mining the im he bill issue da ers, GPL will tion and comp	ents to their a the License, category of c identifying t pact on indiv tte. endeavor to d utation of any	ccounts occas The Third Scl ustomers by p he reason for idual account lispatch a deta	sioned by the nedule of ESRA or the publishing notices in a the adjustment and the s, at least seven hiled explanation				
		2007	2008	2009					
	All customers or any Category (Working Days before bill issue date)	7	7	7					
	Individual customer (Working Days following bill issue date)	5	5	5					

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OPERATING STANDARDS AND PERFORMANCE TARGETS, 2007-9



Category	Analysis and Project	ctions				18		
Billing Complaints and Queries	The current target is to respond within 5 working days. Many queries are addressed at GPL counters immediately. Queries in writing are generally acknowledged on receipt and followed up as quickly as possible.							
	It is proposed that an acknowledgement be issued for written complaints within 3 working days. If the complaint relates to a billing anomaly and does not require a site visit to resolve, it is proposed that an explanation be provided within 7 working days of receipt of the original complaint.							
	If the complaint relat Utilities Commission provided within 28 w endeavor to provide a PUC's approval of an approved if no respon Full achievement of to on implementing the eliminated (e.g. to fac time from meter read	a and/or requires a vorking days of re a response within a additional 14 wo use is received fro this standard and t new billing system cilitate explanatio	site visit, it ceipt of the c 14 working o wrking days. m the PUC s the ability to m to enable t ns of billing	is proposed the priginal complete days and as ne GPL will conse within 5 workithe monitor performant performant he causes of c	at an expla aint. GPL cessary, re ider its rec ng days. rmance is ertain quer	equest the puest the contingent ries to be		
		2007	2008	2009		<u> </u>		
	Days to Acknowledge	3	3	3				
•	Billing queries- No Site Visit	7	7	7				
	Legal queries, and/or, PUC, and/or Site visit	28	28	28				

Other Standards

Category	Analysis and Projections							
Meter Replacement	Mass meter replaceme Meters will also be rep customer complains. GPL has determined th Customer has rewired inspection certificate, working days on avera timing, GPL, from tim provide supply. As su inform customers in su	blaced, as necessa The target for rep his to be necessar the meter interfact is 7 working days age for a residenti the to time, may no toch, the ability to a	ry, following lacing an ind y following a ce to the curr on average al for 90% o ot have all ma achieve these	g investigation lividual Custo a complaint ar ent standard a for a commerc f cases. Due to aterials availab targets may	n of individua mer's meter, and providing t and has obtain cial meter and o cash constra ble when requi be affected.	l once he ed an l 8 aints anc aired to GPL wil		
	Av. Work Days	2007	2008	2009				
	Commercial	8	7	7				
	Residential	8	8	8				