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15 September 2013

Lord Dalgety
Electricity Commission
Tu'atakilangi
Nuku'alofa

Dear Lord Dalgety

Compliance Reporting for the Month of September 2013

In accordance with the reporting requirements of the Electricity Concession Contract and in response to your request for additional information as specified in the suggested MOU dated May, 2012, TPL submits the following reports for the month of September, 2013.

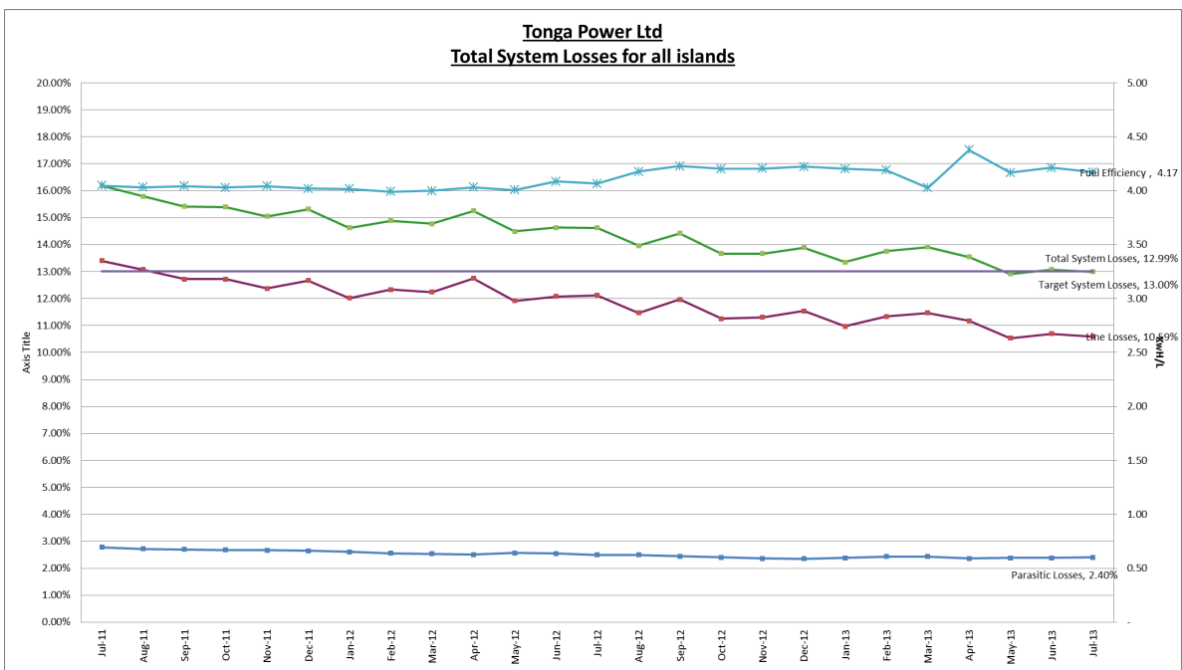
1. System Loss Report – July, 2013
2. Reliability Measures – July, 2013
3. Monthly Outage Events – July, 2013
4. Regulatory Annual Report – June 2012/13

The above report items are described in detail below.

1. System Loss Report

The following graph illustrates that the past 12 months moving average (smoothed) of systems losses for all four islands for the period July 2011 – July 2013. The graph indicates that the total losses for all four islands have slightly decreased from 13.07% (June, 2013) to 12.99% (July, 2013). Also, on a real time basis (disregarding 12 months moving average), total systems losses have decreased from 17.62% (June, 2013) to 15.09% (July, 2013) for all four islands. The real time monthly losses variability can be explained by the impact of the number of days and fall of the weekends in respect to meter reading cycle. It was noticed that smaller decrease of moving average system losses in all four islands.

Fuel efficiency for all four islands has decreased from 4.21 Kwh/Litre (June, 2013) to 4.17 Kwh/Litre (July, 2013).



2. Reliability Measures

SAIDI minutes (measuring average total duration of interruption per connected customer) for the month of August, 2013 have significantly decreased from 142.12 (July, 2013) to 41.08 (August, 2013) minutes (see the table below).

Reliability Measures														
SAIDI Monthly Performance					CAIDI Monthly Performance					SAIFI Monthly Performance				
Month	2010/11	2011/12	2012/13	2012/14	Month	2010/11	2011/12	2012/13	2012/14	Month	2010/11	2011/12	2012/13	2013/14
Jul	7.74	4.74	638.62	142.12	Jul	60.7	143.09	90.44	290.95	Jul	0.13	0.03	7.06	0.49
Aug	935.29	4.51	57.31	41.08	Aug	443.33	161.45	148.47	45.02	Aug	2.11	0.03	0.39	0.91
Sep	933.55	59.19	5.66		Sep	477.69	649.6	92.61		Sep	1.95	0.09	0.06	
Oct	9.35	253.89	16.05		Oct	64.33	243.63	11.23		Oct	0.15	1.04	1.43	
Nov	4.35	25.49	150.73		Nov	123.68	69.34	62.32		Nov	0.04	0.37	2.42	
Dec	20.42	115.19	74.28		Dec	19.48	358.97	33.78		Dec	1.05	0.32	2.2	
Jan	984.8	622.62	177.39		Jan	889.45	280.26	114.76		Jan	1.11	2.22	1.55	
Feb	162.32	3010.76	282.85		Feb	131.96	412.1	363.77		Feb	1.23	7.31	0.78	
Mar	296.37	23.32	134.9		Mar	219.53	55.81	62.17		Mar	1.35	0.42	2.17	
Apr	157.89	336.9	339.33		Apr	63.18	219.97	190.62		Apr	2.5	1.53	1.78	
May	8.22	294.55	122.31		May	222.5	98.59	31.29		May	0.04	2.99	3.91	
Jun	62.22	14.72	2.36		Jun	387.96	66.45	71.86		Jun	0.16	0.22	0.03	

SAIDI targets for 2013/14 will be made available to the board on the next month's risk & compliance report.

The major HV faults contributed to the SAIDI minutes for the August, 2013 are described below:

Report_Date	Fault_Description	Repair_Comment	No_of_Customers_Off
15/08/2013	Down Feeder 1	The Feeder 1 off at 20:21	5021
23/08/2013	Feeder 3 off	Shut down the power line due to replace fuse holder	4106
15/08/2013	Open inline fuse at Maui to Ha'atafu.	Closed part of NUKU'ALOFA and also HIHIFO ROAD and to MAUI	1599
26/08/2013	Power shut down	Power shut down due to lines man rezaqa the HV line	1599
26/08/2013	Coconut trees on HV Line	Conductor broken due to coconut trees on HV lines... So repair turn off and shift fuse so they Delay it for the day time because its need a bucket truck , fly wire and aluminium sleeve to finish up this job...	500
02/08/2013	Conductor broken		183
31/08/2013	Hv pole broken Vs vehicle (L12872)	Replaced HV pole broken vs L 12872 at Nualei	182
01/08/2013	power off	Inline fuse was blown	92
23/08/2013	Partly off	PARTLY OFF DUE TO I INLINE FUSE BLOWN IN SIA'ATOUTAI AND PUKE	60
17/08/2013	All customer off	Power off due to Hv fuse blown in transformer so they just replace fuse link with:	51
12/08/2013	Power off	Power off due to fuse blown...[power off to Talasiu]	40
13/08/2013	Partly off	Partly off due to blown hv fuse so they replace it with 1x3 AMP DDO link	28

CAIDI minutes (measuring average total duration of interruption per interrupted customer) for the month of August 2013 have also decreased significantly from 280.95 minutes (July, 2013) to 45.02 (August, 2013) minutes.

SAIFI (measuring average number of interruptions per customer) has increased from 0.49 (July, 2013) to 0.91 (August, 2013). Refer to the table above.

3. Monthly Outage Events

Unplanned Outage Events	Jul-12	Jul-13	Aug-12	Aug-13	Sep-12	Sep-13	Oct-12	Oct-13	Nov-12	Nov-13	Dec-12	Dec-13	Jan-13	Jan-14	Feb-13	Feb-14	Mar-13	Mar-14	Apr-13	Apr-14	May-13	May-14	Jun-13	Jun-14
Generator problem	0	0	2	1	0		2		2		2		3		1		3		2		8		0	
HV Lines	8	10	12	14	15		11		11		12		9		42		5		9		14		4	
HV/LV Transformer	10	16	9	14	12		6		2		4		6		16		7		3		10		5	
HV Pole	2	1	0	3	1		0		4		2		1		1		2		4		4		2	
LV Lines	37	17	22	33	28		34		34		12		61		69		68		35		39		48	
Service lines	238	341	238	167	340		255		291		301		235		354		569		328		443		268	
Customer premises	173	350	190	298	209		192		244		201		234		221		360		220		284		228	
Street Lights	27	21	26	23	15		15		221		217		224		155		36		34		23		29	
Meter	3	6	8	8	7		6		1		5		3		6		9		4		3		3	
Total	498	762	507	561	627		521		810		756		776		865		1059		639		828		587	

There were total of 561 unplanned fault events for the month of August, 2013 affecting 13,948 customers. As per the table above, the number of fault events has decreased from 762 events in July, 2013 to 561 events in August, 2013. The service line faults have decreased; however, customer premises faults have increased in August, 2013. Most of the customer services faults included fuses at the service line tap off point for a premise. Street lights faults have decreased slightly. There is no correlation between the 2012 and 2013 figures.

4. Regulatory Annual Report 2012/13

Due to the unavailability of audited financial information as to date, the regulatory annual report and other reports as per the Schedule 13 of the Concession Contract will be submitted to EC in October.

Should you have any queries with the information provided, please do not hesitate to contact me.

Yours Faithfully,
Ajith Fernando
Risk & Compliance Manager
Tonga Power Limited

Attachments:

- System Loss Report August 2013
- Reliability Measures August 2013
- Faults Events August 2013