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IN THE PUBLIC UTILITIES COMMISSION
OF THE COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS

16 **PETITION OF THE COMMONWEALTH
17 UTILITIES CORPORATION:**

18 **FOR RATE RELIEF IN ITS POWER,
19 WATER AND WASTEWATER
20 BUSINESS**

DOCKET NO. 13-01

**Subject: Overview of CUC Generation
Capacity and Ability to Serve
Additional Load**

**DIRECT TESTIMONY
WALLON YOUNG FONG**

Filing date: July 5, 2013

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DIRECT TESTIMONY OF
WALLON YOUNG FONG, DEPUTY DIRECTOR FOR POWER SYSTEMS
REHABILITATION, CUC

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2 **1. QUALIFICATIONS**

3
4 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

5 A. My name is Wallon Young Fong. CUC's offices are located at the Joeten DanDan
6 Building,d 3rd Floor. My office is at the power plant #1, Lower Base, Admin Building.
7 The mailing address is PO Box 501220 CK, Saipan MP 96950. My telephone and fax
8 numbers are 670-235-7025 (general), 670-322-4130 (power plant), and 670-332-7087
9 (fax). My email address is wallon59@yahoo.com

10 **Q. BY WHOM AND IN WHAT CAPACITY ARE YOU EMPLOYED?**

11 A. I am employed as the Deputy Director – Power Systems Rehabilitation for the
12 Commonwealth Public Utilities Corporation (CUC).

13 **Q. WHAT ARE YOUR RESPONSIBILITIES?**

14 A. My duties include: the rehabilitation of CUC's power generating systems as well as the
15 day to day management of all of CUC's power operations, except those contracted out,
16 namely Tinian Power Plant. I supervise the following responsibility areas: Saipan Power
17 plants #1, 2 and 4 and the Rota Power Plant. I monitor the production from our
18 independent power producers at Tinian Power Plant. I am also responsible for CUC's
19 power distribution systems and rehabilitation on Saipan and Rota. I monitor the Tinian
20 generation operations, which are contracted out to Telesource. I have held this position
21 since February 2009.

22
23 **Q. PLEASE DESCRIBE YOUR EDUCATION?**

24 A. I received a diploma in electrical engineering from the Fiji Institute of Technology (1979-
25 83); also received the "top award" in electrical engineering from the Institute. I also hold
26 a Fiji National Training Council technician certification.

27 Over my 34-year career in the electric utility industry I have continued my education and
28 training. I have undertaken the following courses: Residential School in Power
Engineering-University of Sydney; Transformer Design-University of Queensland;

1 Storage Tank Design-University of Wisconsin; Management Accountability and
2 Controls-USDA Graduate School; Budget Formulation-USDA Graduate School;
3 Leadership for Pacific Island Utility Managers- East West Center, Honolulu; Disaster
4 Risk Reduction Strategies for Building More Resilient communities- East West Center,
5 Honolulu; contract Negotiations- USDA Graduate School; Procurement and Contract
6 management-USDA Graduate School; Leadership Essentials for Supervisors and
7 managers-USDA Graduate School; Financial Planning-National Rural Electric
8 Cooperative Association (NRECA); and Strategic Business Planning- NREACA.

9 I worked 34 years in the power industry (1979 to 2013), including 14 years in top
10 management.

11 **Q. HAVE YOU PREPARED AN EXHIBIT DETAILING YOUR RELEVANT
12 EXPERIENCE AND EMPLOYMENT HISTORY?**

13 A. Yes. My resume is included as Exhibit 1 to this prefiled testimony.

14 **Q. HAVE YOU PREVIOUSLY TESTIFIED IN A PROCEEDING BEFORE THE
15 COMMONWEALTH PUBLIC UTILITIES COMMISSION OR ANY OTHER
16 UTILITY REGULATORY AGENCY?**

17 A. Yes, I testified previously before the CPUC in docket numbers 10-01. I have also testified
18 before Utility Boards in American Samoa and the Cook Islands that are not regulated by
19 Public Utility Commissions. These Boards review and approve electric rates.

20 **2. PURPOSE AND METHODOLOGY**

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22 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?**

23 A. I am providing this testimony in support of CUC's overall filing. The purpose of my
24 testimony is to describe the current status of CUC's generation system on the island of
25 Saipan and its ability to meet the additional load of hotels and golf courses that at present
26 are either not connected to CUC's grid or are using CUC for only a portion of their
27 electrical requirements.

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1 **Q. WHAT IS THE KEY ISSUE ADDRESSED BY YOUR TESTIMONY?**

2 A. My testimony will offer a conclusion on the following question:

- 3 **1.** Does CUC have sufficient generation capacity to meet the full electrical requirements
4 of CUC’s existing customers on the island of Saipan plus the additional requirements
5 of the hotels and golf courses that are either not on the CUC grid or are using it for
6 only a portion of their electric requirements or for standby power?

7 **Q. PLEASE DESCRIBE CUC’S GENERATION REOURCES ON THE ISLAND OF SAIPAN.**

8
9 A. CUC supplies electricity to its customers on Saipan from two power generating plants.
10 Power Plant 1 (“PP1”) has a generation capacity of 62 MW and can produce 488,808
11 MWh annually and the table **Table WYF-01** shows the installed capacity, maximum
12 reliable capacity and maximum MWH production of each of the 7 engines at PP1.
13 Currently CUC supplies all of Saipan’s electricity requirements from PP1.

14 **Table WYF-01**

15

Saipan Generation Availability Report		
June 2013		
Power Plant	Capacity MW	Potential Annual Generation
		Generation MWh
PP 1		
D/E 1	6	47,304
D/E 2	6	47,304
D/E 3	6	47,304
D/E 4		0
D/E 5	11	86,724
D/E 6	11	86,724
D/E 7	11	86,724
D/E 8	11	86,724
Sub Total	62	488,808

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24 Power Plant 4 (“PP4”) has a generation capacity of 12.9 MW and can produce 101,704
25 MWh annually. **Table WYF-02** shows the installed capacity, maximum reliable capacity
26 and maximum MWH production of each of the 7 engines at PP4. The combined
27 available capacity of PP1 and PP4 is 74.9 MW and the combined maximum energy
28 production capability of the two plants is 590,512 MWh. Should total demand on Saipan

1 approach 50MW, engines at PP-2 can be rehabilitated fully to increase generation
 2 capacity by another 10 to 12 MW. Due to excess capacity, the rehabilitation of engines at
 3 PP-2 has been delayed.

4 **Table WYF-02**

Saipan Generation Availability Report		
June 2013		
		Potential Annual Generation
Power Plant	Capacity MW	Generation MWh
PP 4		
D/E 2	2.1	16,556
D/E 3	2.1	16,556
D/E 4	2.3	18,133
D/E 5	2.3	18,133
D/E 6	0	0
D/E 7	0.9	7,096
D/E 8	0	0
D/E 9	0.9	7,096
D/E 10	2.3	18,133
Sub Total	12.9	101,704

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 13 **Q. PLEASE DESCRIBE THE CURRENT ELECTRIC LOAD ON THE ISLAND OF**
 14 **SAIPAN.**

15 A. During the twelve-month period April 2012 through March 2013, CUC’s Saipan peak
 16 demand was 35.3 MW and adjusted billed usage was 177,952 MWh. However, because
 17 sales of electricity do not include the line losses involved in delivery of electricity from
 18 the power plant to CUC customers, MWh sales must be grossed up to account for these
 19 line losses. For this analysis, I assumed line losses were 15%. In addition, the potential
 20 generation In Tables WYF1 & WYF2 must be reduced for electricity use at each plant;
 5.3% for PP1 and 4% for PP4.

21 **Table WYF-3** shows Saipan monthly potential net MWh generation, billed MWh
 22 including line losses and the available generation for new load.

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Table WYF-3

CPUC DOCKET 13-01 COMMONWEALTH UTILITY CORPORATION			
Saipan			
	Potential Net MWH Generation	Adjusted Billed MWh incl. Losses	Available MWH Generation for New Load
Apr-12	46,072	15,901	30,171
May-12	47,607	17,785	29,822
Jun-12	46,072	18,749	27,323
Jul-12	47,607	18,295	29,312
Aug-12	47,607	17,516	30,092
Sep-12	46,072	17,109	28,962
Oct-12	47,607	18,196	29,411
Nov-12	46,072	17,339	28,733
Dec-12	47,607	16,482	31,125
Jan-13	47,607	15,677	31,930
Feb-13	43,000	15,758	27,242
Mar-13	47,607	15,838	31,769
Total	560,537	204,644	355,892

Q. PLEASE DISCUSS THE CONCEPT OF RESERVE MARGIN AS IT IS COMMONLY USED IN THE ELECTRIC UTILITY INDUSTRY.

A. Reserve margin is generally defined as the amount of unused available generating capacity, in MW, of an electric power system at the time of its peak load as a percentage of total capability. Electric utilities require reserve margins of extra generation capacity for such reasons as the need to meet peak demands and the need to cover unanticipated incidents when power plants are forced to shut down. The extra generation capacity provides protection against brownouts and blackouts, a phenomena the people of Saipan experienced frequently in 2008 and 2009. Typically, interconnected electric utilities on the US Mainland seek to maintain reserve margins of at least 15 percent, meaning they have 15 percent extra capacity at any time in their system peak demand in case of unplanned generation outages. For island utilities like CUC that are not interconnected

with other utilities, a reserve margin of 50% to 75% is not uncommon because unlike interconnected utilities they cannot purchase electricity from other utilities in times of emergencies.

Q. WHAT IS CUC’S RESERVE MARGIN ON THE ISLAND OF SAIPAN FOR THE TWELVE-MONTH PERIOD APRIL 2012 THROUGH MARCH 2013?

A. Table WYF-4 shows CUC’s monthly available generation capacity, monthly peak demand and monthly reserve margin for April 2012 through March 2013. CUC’s peak demand for the test year was 35.3 MW. Therefore CUC’s reserve margin is a very comfortable 112%.

Table WYF-4

CPUC DOCKET 13-01 COMMONWEALTH UTILITY CORPORATION			
Saipan			
Month	Monthly Available Generation Capacity	Current Peak Demand	Reserve Margin
Apr-12	74.9	34.20	
May-12	74.9	35.30	
Jun-12	74.9	35.30	
Jul-12	74.9	34.29	
Aug-12	74.9	32.60	
Sep-12	74.9	33.80	
Oct-12	74.9	33.10	
Nov-12	74.9	31.80	
Dec-12	74.9	32.00	
Jan-13	74.9	30.10	
Feb-13	74.9	30.40	
Mar-13	74.9	<u>31.60</u>	
Totals	74.9	35.30	112%

1 **Q. WHAT IS THE STATUS OF MAINTENANCE ON THE ENGINES AT PP1 AND**
 2 **PP4?**

3 **A.** The maintenance status of engines at PP-1 is at its best or highest levels in many years.
 4 In early 2009 total available capacity at PP-1 was only 9.0MW versus 62 MW today.
 5 CUC over the last four years carried out major rehabilitation and upgrading work on all
 6 engines at PP-1. Some of this include: Replacement of engine#1 crankshaft, installation
 7 of eight new turbochargers on engine# 5 to 8, installation of six new radiator sets on
 8 engine# 1,2,3,5,6 and 7, rebuilding of engine foundations for engines #5,6,7 and 8,
 9 carried out preventive and major engine overhauls on all engines, installation of new
 10 pistons, cylinder liners and other major engine parts on all engines. Installation of new
 11 lube oil centrifuge machines on all engines at PP-1.

12 Maintenance status at PP4 is shown on **Table WYF-05**. The tables show clearly that
 13 CUC is up to date on maintenance at all engines.

14 Engines at PP-4 are well maintained and are currently used for standby purposes.

15 **WYF-05**

16 **CPUC DOCKET 13-01**
 17 **COMMONWEALTH UTILITY CORPORATION**

MAINTENANCE STATUS POWER PLANT #4											
JUNE 2013											
Unit no.	Unit name	Date Last Overhaul	Last overhaul RH	Present RH	Last PMS RH	Remaining RH before 1500 RH PMS	Remaining RH before 320 RH PMS	Remaining RH before 2000 RH PMS	Remaining RH before overhaul	SCHEDULED OVERHAUL RH	REMARKS
U2	NORDBERG	12/1/2008	38,054	55,379	54,419			1,040		35,000	Operational
U3	NORDBERG	10/7/2007	83,665	7,460	7,368			1,907		35,000	Operational
U4	EMD	11/19/2007	4,502	24,277	23,373	596				30,000	Operational
U5	EMD	2/7/2012	23,246	25,301	24,868	1,067				30,000	Operational
U7	Cummins	10/7/2011	50,645	51,741	51,590		169			18,000	Operational
U9	Cummins	5/27/2010	45,408	52,787	52,370		due for PMS			18,000	Operational
U10	EMD	10/14/2008	34,382	7,647	7,114	967				30,000	Operational

24 **Q. THE TESTIMONY OF CUC WITNESSES ALAN FLETCHER AND ROBERT**
 25 **YOUNG RECOMMEND THAT HOTEL AND GOLF COURSE LOADS**
 26 **CURRENTLY GENERATING SOME OR ALL OF THEIR ELECTRICITY**
 27 **BEGIN PURCHASING ALL OF THEIR ELECTRICITY FROM CUC. IN YOUR**
 28 **PROFESSIONAL OPINION, CAN CUC MEET THE ADDITIONAL ELETRIC**

1 **LOAD OF THE HOTELS AND GOLF COURSES THAT GENERATE SOME OR**
2 **ALL OF THEIR ELECTRICITY?**

3 **A.** Yes I do. Based on a survey prepared by CUC staff, of hotels and golf courses that
4 generate some or all of their electricity, we estimate that their peak demand is
5 approximately 8 to 10 MW. **Table WYF-06** shows the electric generation of these
6 entities with the names replaced with letters so that business sensitive information is not
7 disclosed to their competitors. **Table WYF-07** shows the same information contained on
8 Table WY-04, with the Saipan Monthly Peak demand revised to include the demands of
9 the hotels and golf courses that generate some or all of their electricity and the monthly
10 reserve margin recalculated to reflect the increase in CUC load. As the Table WYF-08
11 shows clearly, CUC can easily supply the increased electric load of the hotels and golf
12 courses and still have an adequate reserve margin to provide reliable electric service to
13 CUC customers on the island of Saipan.

14 **Table WYF-06**

15 Shows the estimated peak demand of these entities with
16 the names replaced with letters so that business sensitive
17 information is not disclosed to their competitors.

CPUC DOCKET 13-01	
COMMONWEALTH UTILITY CORPORATION	
Saipan	
Establishment	Estimated Peak MW
A	0.5
B	2.0
C	1.5
D	2.4
E	0.5
F	0.2
G	0.5
H	1.5
Total Peak	9.1

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CPUC DOCKET 13-01 COMMONWEALTH UTILITY CORPORATION					
Saipan					
Month	Monthly Available Generation Capacity	Monthly Peak Demand	Peak Demand of Hotels and Golf Courses	Revised Monthly Peak Demand with Hotel and Golf Course Loads	Reserve Margin
Apr-12	74.9	34.20	9.13	43.33	
May-12	74.9	35.30	9.13	44.43	
Jun-12	74.9	35.30	9.13	44.43	
Jul-12	74.9	34.29	9.13	43.42	
Aug-12	74.9	32.60	9.13	41.73	
Sep-12	74.9	33.80	9.13	42.93	
Oct-12	74.9	33.10	9.13	42.23	
Nov-12	74.9	31.80	9.13	40.93	
Dec-12	74.9	32.00	9.13	41.13	
Jan-13	74.9	30.10	9.13	39.23	
Feb-13	74.9	30.40	9.13	39.53	
Mar-13	74.9	<u>31.60</u>	9.13	40.73	
Totals	74.9	35.30	9.13	44.43	69%

Q. DOES THIS CONCLUDE YOUR TESTIMONY?

A. Thankfully it does.

Signature

I declare under penalty of perjury that the foregoing is true and correct and that this declaration was executed on July 5, 2013 at Saipan, Commonwealth of the Northern Mariana Islands.

Wallon Young Fong
Deputy Director for Power Systems Rehabilitation
Commonwealth Utilities Corporation

RESUME

Name : Wallon Young

Postal Address : PMB 401 POBox 10001
Saipan
MP96950

Telephone Contact : (670) 322 2526
(670) 285 2006

Email Address : wallon59@yahoo.com

Summary:

- Thirty-three years power utility experience, including fourteen years in top management positions.
- Experienced in the management, maintenance and the profitable operation of power plants and distribution systems.
- Managed and rebuilt CUC power generation and transmission/ distribution from 2009 to 2013.
- Managed ASPA's power generation division for 14 years.
- Extensive experience in project management, planning, engineering, construction, operation and maintenance of electrical plant and equipment.
- Successful record of making efficiency improvements and controlling O&M costs.
- Successful record of rebuilding troubled power plants.
- Good organizational, analytical, troubleshooting and problem solving skills in power generation and transmission/distribution systems.
- Successful record of managing Federally funded projects in island utilities
- Good knowledge on SPCC plans, NPDES permits, OSHA / Safety Regulations

Qualifications:

- Diploma in Electrical Engineering
(Fiji Institute of Technology)
- Fiji National Training Council Technician Certificate
(Fiji National Training Council) Continuing Education & Training

Continuing Education and Training:

- Residential School in Power Engineering
University of Sydney
- Transformer Design
University of Queensland
- Storage Tank Design
University of Wisconsin
- Management Accountability & Controls
USDA Graduate School
- Budget Formulation
USDA Graduate School
- Leadership for Pacific Island Utility Managers
East West Center, Honolulu Hawaii
- Disaster Risk Reduction Strategies for Building More Resilient Communities
East West Center, Honolulu Hawaii
- Contract Negotiations
USDA Graduate School
- Procurement & Contract Management
USDA Graduate School
- Leadership Essentials for Supervisors & Managers
USDA Graduate School
- Financial Planning
National Rural Electric Cooperative Association
- Strategic Business Planning
National Rural Electric Cooperative Association

Employment Record:

- Fiji Electricity Authority. 1979 -1992 (13 years)
System Load – 100MW
- American Samoa Power Authority. 1992- 2007 (14 years)
System load – 28MW
- Rarotonga Electricity Authority (Cook Islands). 2008 (1 year)
System Load 5MW
- Commonwealth Utilities Corporation 2009 - 2013 (4 years)
System Load – 35MW

Positions & Responsibilities in the last 34 years (1979 - 2013):**Fiji Electricity Authority (1979-1992):**

- Electrical Substations Technician
- Electrical Distribution Technician
- Substations Supervisor
- Technical Officer –Substations

American Samoa Power Authority (1992-2007):

- Power Plants Operations Superintendent
- Power plants Operations & Electrical Superintendent
- Power plants Engineer
- Power Plants Manager (with plant engineer responsibility)
- Power Generation Manager (with plant engineer responsibility)

Quantum Pacific (3 months in 2007):

- Consulting Engineer

Rarotonga Electricity Authority- Cook Islands (2008):

- Engineer - Power Stations

Commonwealth Utilities Corporation (2009 -2013):

- Deputy Director – Power Systems Rehabilitation (with chief engineer responsibility)

Saipan Generation Availability Report		
June 2013		
		Potential Annual Generation
Power Plant	Capacity MW	Generation MWh
PP 1		
D/E 1	6	47,304
D/E 2	6	47,304
D/E 3	6	47,304
D/E 4		0
D/E 5	11	86,724
D/E 6	11	86,724
D/E 7	11	86,724
D/E 8	11	86,724
Sub Total	62	488,808
S/S Power		25,907
PP 2		
D/E 1	0	0
D/E 2	2	15,768
D/E 3	0	0
D/E 4	2	15,768
D/E 5	2	15,768
D/E 6		
Sub Total	6	47,304
S/S Power		1,892
Saipan Generation Availability Report		
June 2013		
		Potential Annual Generation
Power Plant	Capacity MW	Generation MWh
PP 4		
D/E 2	2.1	16,556
D/E 3	2.1	16,556
D/E 4	2.3	18,133
D/E 5	2.3	18,133
D/E 6	0	0
D/E 7	0.9	7,096
D/E 8	0	0
D/E 9	0.9	7,096
D/E 10	2.3	18,133
Sub Total	12.9	101,704
S/S Power		4,068
Total	80.9	605,948

**CPUC DOCKET 13-01
COMMONWEALTH UTILITY CORPORATION**

Saipan

	Potential Net MWH Generation	Adjusted Billed MWH	Available MWH Generation for New Load
Apr-12	49,804	13,827	35,977
May-12	51,464	15,466	35,999
Jun-12	49,804	16,303	33,501
Jul-12	51,464	15,909	35,555
Aug-12	51,464	15,231	36,233
Sep-12	49,804	14,877	34,927
Oct-12	51,464	15,822	35,642
Nov-12	49,804	15,077	34,727
Dec-12	51,464	14,332	37,132
Jan-13	51,464	13,632	37,832
Feb-13	46,484	13,702	32,781
Mar-13	51,464	13,772	37,692
Total	605,948	177,952	427,997

**CPUC DOCKET 13-01
COMMONWEALTH UTILITY CORPORATION**

Saipan			
Month	Monthly Available Generation Capacity	Current Peak Demand	Reserve Margin
Apr-12	74.9	34.20	
May-12	74.9	35.30	
Jun-12	74.9	35.30	
Jul-12	74.9	34.29	
Aug-12	74.9	32.60	
Sep-12	74.9	33.80	
Oct-12	74.9	33.10	
Nov-12	74.9	31.80	
Dec-12	74.9	32.00	
Jan-13	74.9	30.10	
Feb-13	74.9	30.40	
Mar-13	74.9	<u>31.60</u>	
Totals	74.9	35.30	112%

**CPUC DOCKET 13-01
COMMONWEALTH UTILITY CORPORATION**

**MAINTENANCE STATUS POWER PLANT #4
JUNE 2013**

Unit no.	Unit name	Date Last Overhaul	Last overhaul RH	Present RH	Last PMS RH	Remaining RH before 1500 RH PMS	Remaining RH before 320 RH PMS	Remaining RH before 2000 RH PMS	Remaining RH before overhaul	SCHEDULED OVERHAUL RH	REMARKS
U2	NORDBERG	12/1/08	38,054	55,379	54,419			1,040		35,000	Operational
U3	NORDBERG	10/7/07	83,665	7,460	7,368			1,907		35,000	Operational
U4	EMD	11/19/07	4,502	24,277	23,373	596				30,000	Operational
U5	EMD	2/7/12	23,246	25,301	24,868	1,067				30,000	Operational
U7	Cummins	10/7/11	50,645	51,741	51,590		169			18,000	Operational
U9	Cummins	5/27/10	45,408	52,787	52,370		due for PMS			18,000	Operational
U10	EMD	10/14/08	34,382	7,647	7,114	967				30,000	Operational

MAINTENANCE STATUS CUC PP4

Shows the estimated peak demand of these entities with the names replaced with letters so that business sensitive information is not disclosed to their competitors.

**CPUC DOCKET 13-01
COMMONWEALTH UTILITY CORPORATION**

Saipan	
Establishment	Estimated Peak MW
A	0.5
B	2.0
C	1.5
D	2.4
E	0.5
F	0.2
G	0.5
H	1.5
Total Peak	9.1

**CPUC DOCKET 13-01
COMMONWEALTH UTILITY CORPORATION**

Saipan

Month	Monthly Available Generation Capacity	Monthly Peak Demand	Peak Demand of Hotels and Golf Courses	Revised Monthly Peak Demand with Hotel and Golf Course Loads
Apr-12	80.9	34.20	9.13	43.33
May-12	80.9	35.30	9.13	44.43
Jun-12	80.9	35.30	9.13	44.43
Jul-12	80.9	34.29	9.13	43.42
Aug-12	80.9	32.60	9.13	41.73
Sep-12	80.9	33.80	9.13	42.93
Oct-12	80.9	33.10	9.13	42.23
Nov-12	80.9	31.80	9.13	40.93
Dec-12	80.9	32.00	9.13	41.13
Jan-13	80.9	30.10	9.13	39.23
Feb-13	80.9	30.40	9.13	39.53
Mar-13	80.9	<u>31.60</u>	9.13	40.73
Totals	80.9	35.30	9.13	44.43

