



TAYNE S Y SEKIMURA
Senior Vice President and
Chief Financial Officer

FILED

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PUBLIC UTILITIES
COMMISSION

November 1, 2016

The Honorable Chair and Members
of the Hawai'i Public Utilities Commission
465 South King Street
Kekuanao'a Building, First Floor
Honolulu, Hawai'i 96813

Dear Commissioners

**Subject Tariff Transmittal Nos. 16-01, 16-02, and 16-03 (Decoupling) (Consolidated)
Hawaiian Electric Companies Response to Commission Informal
Information Request**

By this letter, the Hawaiian Electric Companies¹ respond to the Commission's informal information request during the 2016 decoupling presentation held on April 28, 2016. The Commission requested information on the accounting treatment to transition from the "current accrual method" of recognizing Rate Adjustment Mechanism ("RAM") revenues on a calendar year basis back to the "prior lagged method" of recognizing RAM revenues from June 1 to May 31 of the following year. The Commission asked the Companies to provide this information in advance of the end of the year.

As part of the Stipulated Settlement Agreement filed in the Hawaiian Electric 2009 test year ("TY") rate case, which included withdrawing Hawai'i Electric Light's 2013 rate case, terminating the requirement for audits of the CIS and CT-1 projects, and writing off portions of the CIS project costs, the Consumer Advocate² and the Companies agreed and the Commission approved that Hawaiian Electric (alone) would be able to record RAM revenues on a calendar year basis for the 2014-2016 period.³

Attachment 1 to this letter provides information on the accounting treatment and impact of the temporary calendar year accrual of RAM revenues and the accounting for winding down the balance of the RAM regulatory asset to \$0. Given that there were no base rate changes in the

¹ The Hawaiian Electric Companies' or Companies are Hawaiian Electric Company, Inc. ("Hawaiian Electric" or "Company"), Hawai'i Electric Light, Inc. ("Hawai'i Electric Light") and Maui Electric Company, Limited ("Maui Electric").

² Division of Consumer Advocacy of the Department of Consumer Affairs.

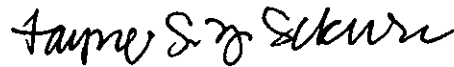
³ See Hawaiian Electric 2009 Test Year Rate Case Stipulated Settlement Agreement, filed on January 28, 2013 in Docket No. 2008-0083.

The Honorable Chair and Members
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November 1, 2016
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period 2014-2016, the amounts billed to and paid by customers under the temporary calendar year RAM revenue recognition agreed upon in the Stipulated Settlement Agreement were the same as if there had been no calendar year revenue recognition. For financial statement purposes, 2014-2016 revenue recognition was based on the annual RAM filing amounts. Absent approval to continue the calendar year accrual of RAM revenues being requested, in June 2017 and thereafter, the revenue recognition for financial statement purposes would be based on the customer billings based on the annual RAM filing (reverting to the provisions specified in the *Order regarding Attachment 5 and Directing HECO to File Tariff Amendments*, issued on May 20, 2011 for Transmittal No. 11-02). As such, the Company would record the 2017 RAM revenue monthly beginning in June 2017 through May 2018.

Today, the Hawaiian Electric Companies are also filing a motion in Transmittal Nos. 16-01, -02 and -03 (consolidated) to preserve and make permanent the current accrual method of recognizing RAM revenues on a calendar year basis and to extend the same treatment to Hawai'i Electric Light and Maui Electric beginning in 2017. However, if the motion is not approved, and the recognition of RAM revenues reverts back to the prior lagged method, the Company expects negative financial implications as described in the motion.

Sincerely,



Tayne S. Y. Sekimura
Senior Vice President & Chief Financial Officer
Hawaiian Electric Company, Inc.

Financial Vice President
Hawai'i Electric Light Company, Inc.
Maui Electric Company, Limited

Enclosures
cc Division of Consumer Advocacy

Attachment 1

To Corporate Accounting Files
From Patsy Nanbu
Subject Accounting for the Wind Down of Settlement Agreement of Hawaiian Electric's
RAM Revenue Adjustment

Background

In August 2010, the Commission approved the implementation of decoupling which was implemented by the Company in March 2011 ("Decoupling Order"). In part, the Decoupling Order provides for a Rate Adjustment Mechanism ("RAM") which is based on a RAM Period¹. The Company is required to file the RAM evaluation by March 31 of the RAM Period for implementation in rates on June 1 of the RAM Period. The RAM revenues for the RAM Period are collected in rates monthly based on monthly allocation factors over the period June 1 through December 31 of the RAM Period and January 1 through May 31 of the year following the RAM Period. When there is a rate order, the RAM collections cease when the new rates become effective.²

In January 2013, the Company and the Consumer Advocate entered into a Stipulated Settlement Agreement as part of the Hawaiian Electric 2009 test year rate case (Docket No. 2008-0083). The Stipulated Settlement settled several issues pending with the Commission at that time, and included the following provisions:

- Through calendar year 2016, the Hawaiian Electric Companies and the Consumer Advocate will recommend and support continuation of Hawaiian Electric Companies' existing recovery mechanisms, which include the decoupling RBA and RAM, energy adjustment clause ("ECAC"), the Purchased Power Adjustment Clause ("PPAC"), the pension and OPEB tracking mechanisms, and the Renewable Energy Infrastructure Program ("REIP") surcharge, in their present forms, except for the agreement for temporary acceleration of Hawaiian Electric's RBA/RAM Revenue Adjustment described in the bullet below and the agreement to recover CIS costs through the RAM Revenue Adjustment.
- For only the 2014, 2015, and 2016 RAM Periods, Hawaiian Electric will be allowed to record the 2014, 2015, and 2016 RAM incremental revenues for the January 1 through December 31 calendar year (once Hawaiian Electric is able to assess the amount), and collect the RAM incremental revenue through the RBA Rate Adjustment (which includes

¹ The RAM tariff defines RAM Period as the calendar year containing the Annual Evaluation Date, which is the date the Company will make its annual filing under the decoupling mechanism. The tariff states that the Annual Evaluation Date shall be no later than March 31st of each year, commencing March 31, 2011.

² Rate Adjustment Mechanism Provision tariff states: "The RAM Revenue Adjustment established for a RAM Period calendar year that is also a rate case test year shall terminate on the effective date of tariff rates that are implemented pursuant to a Commission Decision & Order for that test year, unless otherwise specified below."

the RAM Revenue Adjustment) from June 1 of each year to May 31 of the following year. At the conclusion of that period, the current RAM provisions will again apply in accordance with the Amended Joint Proposal approved by the Final Decision and Order issued in the decoupling proceeding.

In March 2013, the Commission approved the Stipulated Settlement Agreement.

Implementation (2014-2016)

Effective June 1, 2013, the RAM Provision tariff was revised to incorporate the following provision addressing the RAM acceleration:

In accordance with the Stipulated Settlement Agreement and for only the 2014, 2015, and 2016 RAM Periods, Hawaiian Electric will be allowed to record the 2014, 2015, and 2016 RAM Revenue Adjustments, effective January 1 through December 31 of the calendar year (once the Company is able to determine the amount). The Company shall be allowed to collect the accrued RAM Revenue Adjustment amounts, pursuant to this provision, through the RBA Rate Adjustment from June 1 of each year to May 31 of the following year.

When the Company implements a Commission Decision & Order for any rate case within 2014, 2015, or 2016, the accrual of the RAM Revenue Adjustment amounts for that test year, if still in progress, shall terminate. The Company will adjust the RBA Rate Adjustment to collect the unrecovered accrued RAM Revenue Adjustment Amount for that year.

The same provisions are also incorporated in the "Revenue Balancing Account ("RBA") Provision tariff, which additionally includes the following:

Once the Company is able to calculate the RAM amount, the Company will record RAM Revenue Adjustment revenue for the monthly accruals. Recording of the accruals for those years will be delayed until the company is able to determine the RAM amount. The Company is allowed to collect the ratably accrued RAM Revenue Adjustment amounts that are recorded from January through December, based on the monthly allocation factors specified above, through the RBA Rate Adjustment in years 2014, 2015, and 2016 from June 1 of each year to May 31 of the following year.

In 2014, the Company implemented the provisions of the Stipulated Settlement Agreement with the recording of the full amount of 2014 RAM revenues in 2014. Likewise, the full amount of the 2015 RAM revenues was reflected in the 2015 financial statements and the full amount of the 2016 RAM revenues will be reflected in the 2016 financial statements. So for financial statement purposes, the 2014, 2015, and 2016 RAM revenues are reflected in the respective calendar year, consistent with the provision in the Stipulated Settlement Agreement. (See 2014-

2016 in “D(2) RAM Revenue Recognition with Settlement (No Preservation)” section in Attachment 2³⁾ The accounting entries to accrue revenues included the following

Dr	Regulatory Asset – RAM Acceleration
Cr	Unbilled Revenues

There was not, nor will there be, a rate change resulting from a Hawaiian Electric rate case for the 2014, 2015 or 2016 test year⁴ Therefore, there is no adjustment to the RBA Rate Adjustment relating to 2014, 2015, or 2016 As a result, there was no change to the collection from customers as a result of the Stipulated Settlement Agreement (See “B(1) RAM Collections from Customers without Settlement” and “D(1) Collections from Customers with Settlement (No Preservation)” on Attachment 2)

For the period January 1, 2014 through December 31, 2016, the RAM revenues collected from customers will be comprised of the following

- 5 months of 2013 RAM
- 12 months of 2014 RAM
- 12 months of 2015 RAM
- 7 months of 2016 RAM

The accounting entries to record the collection from customers included entries to offset the Regulatory Asset

Dr	Unbilled Revenues
Cr	Regulatory Asset – RAM Acceleration

In the first 5 months of 2017, customers will pay the remaining 5 months of 2016 RAM (See “D(1) Collections for Customer with Settlement (No Preservation)” in Attachment 2) These revenues were recorded as 2016 revenues in accordance with the Stipulated Settlement Agreement

The difference between the revenues accrued for the calendar year and the revenues collected from customers is reflected in the Regulatory Asset for the RAM acceleration

Termination (2017)

Beginning in 2017, the terms of the RAM accrual revert to the provisions specified in the *Order regarding Attachment 5 and Directing HECO to File Tariff Amendments*, issued on May 20, 2011 for Transmittal No 11-02 As such, the Company will not record 2017 RAM revenue in the period January-May 2017 If there is no order adjusting rates for a 2017 test year rate case, the Company will record the 2017 RAM revenue monthly beginning in June 2017 through May 2018 The 2017 RAM revenue will cease if there is an order adjusting rates From January

³Attachment 2 is identical to Attachment A of the Hawaiian Electric Companies’ motion filed on November 1, 2016 in Transmittal Nos 16-01, -02 and -03 (consolidated)

⁴ Hawaiian Electric filed an abbreviated 2014 test year rate case in Docket No 2013-0373, which requested no change to base rates

through May 2017, the monthly collection of the 2016 RAM will include the following monthly journal entries

Dr Unbilled Revenues
Cr Regulatory Asset – RAM Acceleration

- For the period 2014 through 2016, the Company recorded the RAM revenues in the respective calendar year in accordance with the Stipulated Settlement. In the transition to the accelerated treatment in 2014, the Company documented the accounting treatment in an “Illustration of the Hawaiian Electric Company, Inc. Rate Adjustment Mechanism Provision For The Stipulated Settlement Agreement”. The documentation was requested by Carl Freedman and provided to the Consumer Advocate on June 4, 2014. As stipulated in the Agreement

In the months of January through May of 2014, Hawaiian Electric will be allowed to record the 2014 RAM revenues while continuing to collect the 2013 RAM Revenue Adjustment level (that was effective on June 1, 2013). The 2013 target amounts to be recovered reduce the RAM regulatory asset so that only the “net” increase in 2014 RAM revenues (over remaining 2013 RAM target) is recorded within the RAM regulatory asset as of May 31, 2014.”

The entry to record the 2013 RAM Revenues collected was

Dr Unbilled Revenues
Cr Regulatory Asset – RAM Acceleration

- In the transition back to the lagged treatment of revenue recognition in 2017, where revenue is recorded when billed (effective June 1 of each year to May 31 of the following year), the accounting treatment will be reversed. Since the 2013 RAM revenue amounts have already been collected from customers, the 5 months of 2013 RAM revenues will be reflected as Unbilled Revenues with an offset to the credit balance in the Regulatory Asset account

Dr Regulatory Asset – RAM Acceleration
Cr Unbilled Revenues

The revenue recognition of the 5 months of 2013 RAM revenues will be done monthly in the period January through May 2017. (See “D(2) RAM Revenue Recognition with Settlement (No Extension Preservation)” in Attachment 2.) The monthly recognition of revenues is consistent with the monthly recognition provided for under the tariff

Attachment 2
(\$ in millions)

Customer RAM Payments	A(1)	B(1)	C(1)	D(1)
	RAM Collected in RAM Period	RAM Collections without Settlement	RAM Collections with Settlement and Preservation	RAM Collections with Settlement (No Preservation)
2011	15	9	9	9
2012	22	19	19	19
2013	39	32	32	32
2014	69	57	57	57
2015	77	74	74	74
2016	88	85	85	85
2017 Illustration	83	79	90	79
2018 Illustration	10	6	34	6
2019 Illustration	14	7	7	7
	419	367	407	367

RAM Accruals for Financial Statements	A(2)	B(2)	C(2)	D(2)
	RAM Revenue Recognition in RAM Period	RAM Revenue Recognition without Settlement	RAM Revenue Recognition with Settlement and Preservation	RAM Revenue Recognition with Settlement (No Preservation)
2011	15	9	9	9
2012	22	19	19	19
2013	39	32	32	32
2014	69	57	69	69
2015	77	74	77	77
2016	88	85	88	88
2017 Illustration	83	79	88	59
2018 Illustration	10	6	21	6
2019 Illustration	14	7	14	7
	419	367	419	367

Case A RAM collection and accrual in the RAM period (calendar year Jan-Dec)

Case B RAM collection and accrual without Settlement (i.e. June 1 - May 31)

Case C RAM collection and accrual with Settlement and Preservation
Beginning 2014, RAM for RAM period = accrual for calendar year
RAM Regulatory Asset amortized and collected upon change in base rates incorporating the RAM
RAM Regulatory Asset collection between date of change in rates to June 1 of following year

Case D RAM collection and accrual based on Settlement (no Preservation)
Beginning 2014 and ending 2016, RAM for RAM period = accrual for calendar year
RAM Regulatory Asset amortized monthly January - May 2017

Attachment 2 - Overview of RAM Collections and Revenue Recognition
(\$ in millions)

A(1) RAM Collected in RAM Period (Jan-Dec)										
	2011	2012	2013	2014	2015	2016	2017	2018	2019	Calendar
	RAM	RAM	RAM	RAM	RAM	RAM	RAM	RAM	RAM	Year Total
	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual*)	(**)	(**)	(**)	
Assumed for Illustration						88.4	100	10	30	
2011 Jan-May	9.1									15.0
2011 June-Dec	5.9									
2012 Jan-May		13.5								22.4
2012 June-Dec		8.9								
2013 Jan-May			23.2							38.5
2013 June-Dec			15.3							
2014 Jan-May				41.7						69.3
2014 June-Dec				27.5						
2015 Jan-May					46.0					77.4
2015 June-Dec					31.4					
2016 Jan-May						53.3				88.4
2016 June-Dec						35.1				
2017 Jan							8.1			
2017 Feb							7.3			
2017 Mar							8.1			
2017 Apr							7.8			
2017 May							8.4			
2017 June							8.5			83.5
2017 July							8.8			
2017 Aug							9.0			
2017 Sept							8.7			
2017 Oct							8.8			
2017 Nov ***							-			
2017 Dec							-			
2018 Jan								0.8		
2018 Feb								0.7		
2018 Mar								0.8		
2018 Apr								0.8		
2018 May								0.8		
2018 June								0.8		10.0
2018 July								0.9		
2018 Aug								0.9		
2018 Sept								0.9		
2018 Oct								0.9		
2018 Nov								0.8		
2018 Dec								0.8		
2019 Jan									2.4	
2019 Feb									2.2	
2019 Mar									2.4	14.5
2019 Apr									2.4	
2019 May									2.5	
2019 June									2.5	
	15.0	22.4	38.5	69.3	77.4	88.4	83.5	10.0	14.5	418.9

A(2) RAM Revenue Recognition in RAM Period (Jan-Dec)

	2011 RAM (Actual)	2012 RAM (Actual)	2013 RAM (Actual)	2014 RAM (Actual)	2015 RAM (Actual)	2016 RAM (Actual*)	2017 RAM (**)	2018 RAM (**)	2019 RAM (**)	Calendar Year Total
2011 Jan-May	9.1									15.0
2011 June-Dec	5.9									
2012 Jan-May		13.5								22.4
2012 June-Dec		8.9								
2013 Jan-May			23.2							38.5
2013 June-Dec			15.3							
2014 Jan-May				27.5						69.3
2014 June-Dec				41.7						
2015 Jan-May					31.4					77.4
2015 June-Dec					46.0					
2016 Jan-May						35.1				88.4
2016 June-Dec						53.3				
2017 Jan							8.1			
2017 Feb							7.3			
2017 Mar							8.1			
2017 Apr							7.8			
2017 May							8.4			
2017 June							8.5			83.5
2017 July							8.8			
2017 Aug							9.0			
2017 Sept							8.7			
2017 Oct							8.8			
2017 Nov ***							-			
2017 Dec							-			
2018 Jan								0.8		
2018 Feb								0.7		
2018 Mar								0.8		
2018 Apr								0.8		
2018 May								0.8		
2018 June								0.8		10.0
2018 July								0.9		
2018 Aug								0.9		
2018 Sept								0.9		
2018 Oct								0.9		
2018 Nov								0.8		
2018 Dec								0.8		
2019 Jan									2.4	
2019 Feb									2.2	
2019 Mar									2.4	14.5
2019 Apr									2.4	
2019 May									2.5	
2019 June									2.5	
15.0	22.4	38.5	69.3	77.4	88.4	88.4	83.5	10.0	14.5	418.9

* The 2016 RAM schedule above assumes that there is no rate case rate order prior to June 2017, which is likely based on the current HE rate case plans

** 2017-2019 RAM amounts are for illustration purposes only

*** Assume interim D&O in November 2017 incorporating RAM in base rates

B(1) RAM Collections from Customers without Settlement

	2011	2012	2013	2014	2015	2016	2017	2018	2019	Calendar
	RAM	RAM	RAM	RAM	RAM	RAM	RAM	RAM	RAM	Year
	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual*)	(**)	(**)	(**)	Total
Assumed for Illust						88 4	100	10	30	
2011 Jan-May										9 1
2011 June-Dec	9 1									
2012 Jan-May	5 9									19 5
2012 June-Dec		13 5								
2013 Jan-May		8 9								32 2
2013 June-Dec			23 2							
2014 Jan-May			15 3							
2014 June-Dec				41 7						57 0
2015 Jan-May				27 5						
2015 June-Dec					46 0					73 5
2016 Jan-May					31 4					
2016 June-Dec						53 3				84 6
2017 Jan						7 2				
2017 Feb						6 4				
2017 Mar						7 2				
2017 Apr						6 9				
2017 May						7 5				
2017 June							8 5			
2017 July							8 8			78 9
2017 Aug							9 0			
2017 Sept							8 7			
2017 Oct							8 8			
2017 Nov ***							-			
2017 Dec							-			
2018 Jan								-		
2018 Feb								-		
2018 Mar								-		
2018 Apr								-		
2018 May								-		
2018 June								0 8		
2018 July								0 9		6 0
2018 Aug								0 9		
2018 Sept								0 9		
2018 Oct								0 9		
2018 Nov								0 8		
2018 Dec								0 8		
2019 Jan								0 8		
2019 Feb								0 7		
2019 Mar								0 8		
2019 Apr								0 8		6 5
2019 May								0 8		
2019 June									2 5	
	15 0	22 4	38 5	69 3	77 4	88 4	43 7	10 0	2 5	367 3

B(2) RAM Revenue Recognition without Settlement

	2011 RAM (Actual)	2012 RAM (Actual)	2013 RAM (Actual)	2014 RAM (Actual)	2015 RAM (Actual)	2016 RAM (Actual*)	2017 RAM (**)	2018 RAM (**)	2019 RAM (**)	Calendar Year Total
2011 Jan-May										9 1
2011 June-Dec	9 1									
2012 Jan-May	5 9									19 5
2012 June-Dec		13 5								
2013 Jan-May		8 9								32 2
2013 June-Dec			23 2							
2014 Jan-May			15 3							57 0
2014 June-Dec				41 7						
2015 Jan-May				27 5						73 5
2015 June-Dec					46 0					
2016 Jan-May					31 4					84 6
2016 June-Dec						53 3				
2017 Jan						7 2				
2017 Feb						6 4				
2017 Mar						7 2				
2017 Apr						6 9				
2017 May						7 5				
2017 June							8 5			78 9
2017 July							8 8			
2017 Aug							9 0			
2017 Sept							8 7			
2017 Oct							8 8			
2017 Nov ***							-			
2017 Dec							-			
2018 Jan								-		
2018 Feb								-		
2018 Mar								-		
2018 Apr								-		
2018 May								-		
2018 June								0 8		6 0
2018 July								0 9		
2018 Aug								0 9		
2018 Sept								0 9		
2018 Oct								0 9		
2018 Nov								0 8		
2018 Dec								0 8		
2019 Jan								0 8		
2019 Feb								0 7		
2019 Mar								0 8		6 5
2019 Apr								0 8		
2019 May								0 8		
2019 June									2 5	
	15 0	22 4	38 5	69 3	77 4	88 4	43 7	10 0	2 5	367 3

C(1) RAM Collections from Customers with Settlement and Preservation										
	2011	2012	2013	2014	2015	2016	2017	2018	2019	Calendar
	RAM	RAM	RAM	RAM	RAM	RAM	RAM	RAM	RAM	Year Total
	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual*)	(**)	(**)	(**)	
Assumed for Illust						88 4	100	10	30	
2011 Jan-May										9 1
2011 June-Dec	9 1									
2012 Jan-May	5 9									19 5
2012 June-Dec		13 5								
2013 Jan-May		8 9								32 2
2013 June-Dec			23 2							
2014 Jan-May			15 3							57 0
2014 June-Dec				41 7						
2015 Jan-May				27 5						73 5
2015 June-Dec					46 0					
2016 Jan-May					31 4					84 6
2016 June-Dec						53 3				
2017 Jan						7 2				
2017 Feb						6 4				
2017 Mar						7 2				
2017 Apr						6 9				
2017 May						7 5				
2017 June							8 5			90 2
2017 July							8 8			
2017 Aug							9 0			
2017 Sept							8 7			
2017 Oct							8 8			
2017 Nov ***							5 7			
2017 Dec							5 7			
2018 Jan							5 7	-		
2018 Feb							5 7	-		
2018 Mar							5 7	-		
2018 Apr							5 7	-		
2018 May							5 7	-		
2018 June								0 8		34 4
2018 July								0 9		
2018 Aug								0 9		
2018 Sept								0 9		
2018 Oct								0 9		
2018 Nov								0 8		
2018 Dec								0 8		
2019 Jan								0 8		
2019 Feb								0 7		
2019 Mar								0 8		6 5
2019 Apr								0 8		
2019 May								0 8		
2019 June									2 5	
	15 0	22 4	38 5	69 3	77 4	88 4	83 5	10 0	2 5	407 0

C(2) RAM Revenue Recognition with Settlement and Preservation

	2011 RAM (Actual)	2012 RAM (Actual)	2013 RAM (Actual)	2014 RAM (Actual)	2015 RAM (Actual)	2016 RAM (Actual*)	2017 RAM (**)	2018 RAM (**)	2019 RAM (**)	Calendar Year Total
2011 Jan-May										9 1
2011 June-Dec	9 1									
2012 Jan-May	5 9									19 5
2012 June-Dec		13 5								
2013 Jan-May		8 9								32 2
2013 June-Dec			23 2							
2014 Jan-May				27 5						69 3
2014 June-Dec				41 7						
2015 Jan-May					31 4					77 4
2015 June-Dec					46 0					
2016 Jan-May						35 1				88 4
2016 June-Dec						53 3				
2017 Jan							8 1			
2017 Feb							7 3			
2017 Mar							8 1			
2017 Apr							7 8			
2017 May							8 4			
2017 June							8 5			87 8
2017 July							8 8			
2017 Aug							9 0			
2017 Sept							8 7			
2017 Oct							8 8			
2017 Nov ***			2 2				-			
2017 Dec			2 2				-			
2018 Jan			2 2					0 8		
2018 Feb			2 2					0 7		
2018 Mar			2 2					0 8		
2018 Apr			2 2					0 8		
2018 May			2 2					0 8		
2018 June								0 8		20 9
2018 July								0 9		
2018 Aug								0 9		
2018 Sept								0 9		
2018 Oct								0 9		
2018 Nov								0 8		
2018 Dec								0 8		
2019 Jan									2 4	
2019 Feb									2 2	
2019 Mar									2 4	14 5
2019 Apr									2 4	
2019 May									2 5	
2019 June									2 5	
	15 0	22 4	38 5	69 3	77 4	88 4	83 5	10 0	14 5	418 9

D(1) RAM Collections from Customers with Settlement (No Presesrvation)

	2011 RAM (Actual)	2012 RAM (Actual)	2013 RAM (Actual)	2014 RAM (Actual)	2015 RAM (Actual)	2016 RAM (Actual*)	2017 RAM (**)	2018 RAM (**)	2019 RAM (**)	Calendar Year Total
Assumed for Illust						88 4	100	10	30	
2011 Jan-May										9 1
2011 June-Dec	9 1									
2012 Jan-May	5 9									19 5
2012 June-Dec		13 5								
2013 Jan-May		8 9								32 2
2013 June-Dec			23 2							
2014 Jan-May			15 3							
2014 June-Dec				41 7						57 0
2015 Jan-May				27 5						
2015 June-Dec					46 0					73 5
2016 Jan-May					31 4					
2016 June-Dec						53 3				84 6
2017 Jan						7 2				
2017 Feb						6 4				
2017 Mar						7 2				
2017 Apr						6 9				
2017 May						7 5				
2017 June							8 5			78 9
2017 July							8 8			
2017 Aug							9 0			
2017 Sept							8 7			
2017 Oct							8 8			
2017 Nov ***							-			
2017 Dec							-			
2018 Jan								-		
2018 Feb								-		
2018 Mar								-		
2018 Apr								-		
2018 May								-		
2018 June								0 8		6 0
2018 July								0 9		
2018 Aug								0 9		
2018 Sept								0 9		
2018 Oct								0 9		
2018 Nov								0 8		
2018 Dec								0 8		
2019 Jan								0 8		
2019 Feb								0 7		
2019 Mar								0 8		6 5
2019 Apr								0 8		
2019 May								0 8		
2019 June									2 5	
	15 0	22 4	38 5	69 3	77 4	88 4	43 7	10 0	2 5	367 3

D(2) RAM Revenue Recognition with Settlement (No Preservation)

	2011 RAM (Actual)	2012 RAM (Actual)	2013 RAM (Actual)	2014 RAM (Actual)	2015 RAM (Actual)	2016 RAM (Actual*)	2017 RAM (**)	2018 RAM (**)	2019 RAM (**)	Calendar Year Total
2011 Jan-May										91
2011 June-Dec	91									
2012 Jan-May	59									195
2012 June-Dec		135								
2013 Jan-May		89								322
2013 June-Dec			232							
2014 Jan-May				275						693
2014 June-Dec				417						
2015 Jan-May					314					774
2015 June-Dec					460					
2016 Jan-May						351				884
2016 June-Dec						533				
2017 Jan			31				-			
2017 Feb			28				-			
2017 Mar			31				-			
2017 Apr			30				-			
2017 May			32				-			
2017 June							85			590
2017 July							88			
2017 Aug							90			
2017 Sept							87			
2017 Oct							88			
2017 Nov ***							-			
2017 Dec							-			
2018 Jan								-		
2018 Feb								-		
2018 Mar								-		
2018 Apr								-		
2018 May								-		
2018 June								08		60
2018 July								09		
2018 Aug								09		
2018 Sept								09		
2018 Oct								09		
2018 Nov								08		
2018 Dec								08		
2019 Jan								08		
2019 Feb								07		
2019 Mar								08		65
2019 Apr								08		
2019 May								08		
2019 June									25	
	150	224	385	693	774	884	437	100	25	3673

Monthly Factors (Assumed for Illustration)

Jan	8 10%
Feb	7 26%
Mar	8 10%
Apr	7 84%
May	8 44%
Jun	8 47%
Jul	8 77%
Aug	9 04%
Sep	8 68%
Oct	8 78%
Nov	8 26%
Dec	8 26%
	<u>100 00%</u>