Pennsylvania New Jersey Delaware Maryland

Implementation Guideline

Electronic Data Interchange

TRANSACTION SET

867 Monthly Usage Ver/Rel 004010

Table of Contents

Summary of	f Changes	4
	es	
Pennsylvani	a Notes	9
New Jersey	Notes	. 11
Maryland N	otes	. 14
How to Use	the Implementation Guideline	. 18
X12 Structu	re	. 19
Data Diction	nary for 867 Monthly Usage	. 20
	ST Transaction Set Header	
	BPT Beginning Segment for Product Transfer and Resale	. 26
Segment:	DTM Date/Time Reference (649=Document Due Date)	
Segment:	MEA Measurements (NP=Percent Participation)	
Segment:	N1 Name (8S=LDC Name)	
Segment:	N1 Name (SJ=ESP Name)	
	N1 Name (G7=Renewable Energy Provider Name)	
	N1 Name (8R=Customer Name)	
	REF Reference Identification (12=LDC Account Number)	
	REF Reference Identification (45=LDC Old Account Number)	
	REF Reference Identification (11=ESP Account Number)	
	REF Reference Identification (BLT=Billing Type)	
	REF Reference Identification (PC=Bill Calculator)	
	PTD Product Transfer and Resale Detail (BB=Billed Summary)	
Segment:	•	
Segment:	DTM Date/Time Reference (151=Service Period Start)	
Segment:	QTY Quantity (Billed kwh)	
Segment:	QTY Quantity (Billed Demand)	
Segment:	QTY Quantity (Measured Demand)	
Segment:	PTD Product Transfer and Resale Detail (SU=Metered Services Summary)	
Segment:	DTM Date/Time Reference (150=Service Period Start)	
Segment:	DTM Date/Time Reference (150=Service Period Start)	
Segment:	QTY Quantity	
	PTD Product Transfer and Resale Detail (PM=Metered Services Detail)	
0	DTM Date/Time Reference (150=Service Period Start)	
Segment:		
Segment:	DTM Date/Time Reference (151=Service Period End)	
Segment:	DTM Date/Time Reference (514=Meter Exchange Date)	
Segment:	REF Reference Identification (6W=Channel Number)	
Segment:	REF Reference Identification (MG=Meter Number)	
Segment:	REF Reference Identification (NH=LDC Rate Class)	
Segment:	REF Reference Identification (PR=LDC Rate Subclass)	
Segment:	REF Reference Identification (JH=Meter Role)	
Segment:	REF Reference Identification (IX=Number of Dials/Digits)	
Segment:	QTY Quantity	
Segment:	MEA Measurements	
Segment:	MEA Measurements (MU=Meter Multiplier)	
Segment:	MEA Measurements (ZA=Power Factor)	
Segment:	MEA Measurements (CO=Transformer Loss Multiplier)	
	PTD Product Transfer and Resale Detail (BC=Unmetered Services Summary)	
Segment:	DTM Date/Time Reference (150=Service Period Start)	
Segment:	DTM Date/Time Reference (151=Service Period End)	
Segment:	QTY Quantity	
	PTD Product Transfer and Resale Detail (BJ=Generation Transferred In/Out)	
Segment:	DTM Date/Time Reference (150=Service Period Start)	
Segment:	DTM Date/Time Reference (151=Service Period End)	
Segment:	QTY Quantity	
Segment:	MEA Measurements	. 75
	867 Monthly Usage (4010)2IG867MUv6-7.docxx	

Segment:	SE Transaction Set Trailer	77
Examples:		78
	1 – One Meter – On/off peak:	
Example	2 – One Meter - Totalizer	79
Example	3 – One Meter – Totalizer Only – No Demand:	80
Selected Bi	lling Test Scenarios:	80
Scenario	- Single meter totalized (one rate), Month 1	80
Scenario	- Single meter with time of day billing, Month 1	81
Scenario	- Single meter totalized. Meter switched by LDC during month 1	82
Scenario	- Single meter. , Demand and KWH meter (non-interval), Month 1	83
Scenario	- Multiple meters. Demand and KWH meter (non-interval).	83
Scenario	- Multiple services, metered and unmetered.	84
	- Unmetered Service alone	
Scenario	- Single meter totalized (one rate), month 2	86
	- Cancel Months 1 and 2	
Scenario	- Restatement of usage for Months 1 and 2.	88
	- FINAL during month 2.	
Scenario	- Single meter. Demand and KWH meter (non-interval), Month 1:	89
	ania, & New Jersey (not PSE&G or FirstEnergy) Net Metering / Customer Generation Examples	
	ania Net Metering / Customer Generation Examples ("Bank Rollover") / not FirstEnergy	
	ania Net Metering / Customer Generation Examples (FirstEnergy Companies)	
	ey (PSE&G) Net Metering / Customer Generation Examples	
Maryland	I – 867 Monthly Usage - Multiple meter exchange in same service period 1	01
	I (BGE)- Examples of regular Net Metered Accounts with PTD*BJ loop (non-TOU/TOU) 1	
	l (PHI/Potomac Edison)- Examples of regular Net Metered Accounts w/PTD*BJ loop (non-TOU/TOU	
	l (BGE) - Examples of PTD*BJ Loop for Aggregate Net Energy Metering (ANEM), Non-TOU 1	
	l (PHI/PE) - Examples of PTD*BJ Loop for Aggregate Net Energy Metering (ANEM), Non-TOU 1	
	l (BGE) - Examples of PTD*BJ Loop for Aggregate Net Energy Metering (ANEM), TOU 1	
Maryland	l (PHI/PE) - Examples of PTD*BJ Loop for Aggregate Net Energy Metering (ANEM), TOU 1	99

	Summary of Changes
June 29, 1999 Version 1.0	 Initial Release. Changes since last draft: Changed "EGS" to "ESP" and "EDC" to "LDC" throughout the guideline. Removed "NJ Definitions" and replaced it with "LDC Definitions" and "ESP Definitions" in the Notes section. Added "How to use the implementation guideline" page. In addition, changed all headers to the true X12 definition. Also corrected the Table on Page 4 to reflect X12 definitions and added the words "X12 Structure" to the title on that page.
July 1, 1999 Version 1.1	 Removed Code 77 from the BPT07 and modified code F to indicate that it is used when the customer account finals in addition to if the customer switched to a new ESP. Clarified that Document Due Date is not provided for cancel transaction. Added "Must Use" to MEA07 per the data dictionary. Added " if the LDC reads the meter" to the requirements for the PTD*BB Loop.
October 1, 1999 Version 1.1a	 Add Delaware Use for Delmarva Add BPT04 code to indicate this is for Summary Data only for an Interval customer. Added clarification to use of DTM*649 to indicate it should only be used for Bill Ready. It is not valid for Rate Ready or Dual Billing.
November 4, 1999 Version 1.2	This is a FINAL version for Pennsylvania and New Jersey
November ??, 1999 Draft version 1.2MD1	 Add Maryland use to document – the changes were added to the version 1.2 of the regional standards Added Table of Contents Added Data Dictionary
December 23, 1999 Version 1.2MD2	 Clarified use of X4 code for Maryland Noted that BGE can only provide billed demand
January 17, 2000 Version 1.2MD3	 Clarified setting of DTM*649 for ESP consolidated bill Clarified REF*45 is only used when LDC sends transaction.
April 20, 2000 Version 1.2MD4	 Clarified APS use of REF*45 in MD Incorporate PA Change Control X015 to add X5 as a valid value for BPT04 Removed comment on mandatory use of PTD*BD loop for PA by 3/2000. This is being discussed as part of PA Change Control X018. While it is not determined if there are cases when this loop may be needed, it was agreed that it will not be mandatory by 3/2000. Add PA Notes Section Add MD Notes Section
May 17, 2000 Version 1.2MD5	• Incorporate PA Change Control X023 – allow PM loop to be optional on a cancellation
May 30, 2000 Version 1.2MD6	• Incorporate PA Change Control X018 – remove BD loop. PA decided this loop would not be used, and PA was the only state that intended to use this loop.
June 26, 2000 Version 1.2MD7	 Added clarity to Meter Multiplier and Transformer Loss Multiplier definitions in Data Dictionary Added clarity to example titles
August 14, 2000 Version 1.2MD8	 Add NJ Notes Section Add Note for PSE&G on BPT07 Added NJ Note for MEA05
September 10, 2000 Version 1.3	This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware (Delmarva only).
October 19, 2001 Version 1.3rev01	Incorporate Delaware Electric Coop (DEC) information for Delaware

December 13, 2001 Version 1.3rev02	 Incorporate PA Change Control 038 – change all references of PPL to PPL EU. Add clarification to NJ Notes section for PSE&G regarding support of detail interval data (summary level not an option). Also add PSE&G clarification on cancel / rebills for supplier other than supplier of record. Remove note indicating PSE&G does not support cross reference to the 810.
January 9, 2002 Version 2.0	 Incorporate SMECO specific data for MD (MD Change Control 003) This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware.
January 20, 2006 Version 2.0.1D	 Incorporate NJ Change Control 005 (NJ CleanPower program changes) Incorporate PA Change Control 039 to reflect "generated usage" Incorporate NJ Change Control 006 to reflect current operations
October 23, 2006 Version 2.0.2D	 Incorporate NJ Change Control 008 to reflect NJ CleanPower – unmetered usage for RECO) Incorporate NJ Change Control 009 to reflect NJ CleanPower change for partial usage. Add clarifying notes for NJ Net Metering.
February 12, 2007 Version 2.0.3F	Considered FINAL for PA and NJ
February 22, 2009 Version 2.0.4D	Incorporate NJ Change Control PSEG-E-Ref45
January 24, 2010 Version 2.1	This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware.
September 8, 2010 Version 2.1.1D	 Incorporate PA Change Control 060 – (PA Admin/Cleanup) Incorporate MD Change Control – Admin (Admin/Cleanup for MD)
February 28, 2011 Version 3.0	This transaction is a new FINAL version for Pennsylvania, New Jersey, Maryland, and Delaware.
February 16, 2012 Version 3.01	 Incorporate PA Change Control 093 (Admin Changes) Incorporate MD Change Control 010 (PEPCO AMI/Smart Meter support)
March 8, 2013 Version 6.0	 Moving to v6.0 to align versions across all transaction sets Cleaned up references to Allegheny and APS throughout document Incorporated PA Change Control 103 (uniform net meter consumption reporting)
March 17, 2014 Version 6.1	 Incorporate PA Change Control 105 Update2 (clarify net meter bank rollover) Incorporate PA Change Control 111 (clarify PECO use of BPT04) Incorporate PA Change Control 116 (update DLCO net meter looping) Incorporate MD Change Control 018 (clarify multiple meter exchanges) Incorporate MD Change Control 025 (867MU changes in PHI new CIS) Incorporate MD Change Control 028 (BGE support interval usage via EDI) Incorporate MD Change Control 029 (uniform net meter data reporting) Incorporate NJ Change Control Electric 016 (uniform net meter data reporting) Incorporate NJ Change Control Electric 020 (ACE new CIS; 867MU changes) Incorporate NJ Change Control Electric 031 (RECO removal from IG)
February 18, 2015 Version 6.2	• Incorporate MD Change Control 036 (clarify net meter customer excess generation)
February 5, 2016 Version 6.3	 Incorporate PA Change Control 127 (Clarify PA Notes for net meter bank rollover) Incorporate MD Change Control 039 (BGE net meter data reporting) Incorporate MD Change Control 042 (Clarify MD Notes for net meter bank rollover)
March 14, 2017 Version 6.4	Incorporate MD Change Control 048 (clarify Billed Demand reporting)
May 18, 2018 Version 6.5	 Incorporate PA Change Control 147 (Incorporate Citizens & Wellsboro into IG) Incorporate NJ Change Control Electric 040 (clarify Notes for PSEG Cancel/Rebill)
March 22, 2019 Version 6.6	 Incorporate MD Change Control 53 (Add new PTD*BJ loop) Incorporate NJ Change Control Electric 048 (NJ Note – End of Clean Power Choice)

867 Monthly Usage (4010)

March 31, 2020 •	Incorporate PA Change Control 150v3 (FirstEnergy PA net meter data reporting)
Version 6.7	

General Notes

PTD Loops Definition

The PTD Loops are required. Some are used individually, others are used in pairs. This section describes the purpose of each PTD loop. Depending on the characteristics of the account, there may be a different number of loops.

<u>Monthly Billed Summary Information</u> (PTD=BB): This loop is always required for every type of account if the LDC reads the meter.

Monthly Billed Summary (PTD01=BB): One PTD per Account – Data obtained from the billing system to reflect the billing data for this account.

<u>Metered Services Information</u> (PTD01 = SU and PM) – These loops are used to convey the usage for metered data, at both a detail level by meter by unit of measure (PTD01=PM) and for some units of measure, at a summary level for all meters (PTD01=SU).

Metered Services Summary (PTD01=SU): Summing to the account level by kWh and KVARH. Data is obtained from the metering system. For every PTD01=SU, there must be a PTD01=PM. The PTD01=SU loop will NEVER be provided for kW or KVAR.

Metered Services Detail (PTD01=PM): One or more PTDs, one for each unit of measure for each meter. Data is obtained from the metering system. In the case of one meter reporting one unit of measure (kWh), the PTD01=PM will be the same as the PTD01=SU and both must be provided. If you have two meters and each meter measures kW and kWh, you will send one PTD SU Loop. The kWh readings from Meter 1 and Meter 2 will be summed and provided in one PTD SU Loop.

<u>Unmetered Services Information</u> (PTD01 = BC) – This loop is used to convey the usage for any unmetered portion of an account. This information must be provided at the summary level (PTD01=BC).

Unmetered Services Summary (PTD01=BC): Total Consumption for all unmetered services at the account level. Even though some of the consumption may be estimated, the consumption is reported as actual for unmetered services. The summary is required at this time for Unmetered Services.

<u>Generation Transferred In/Out</u> (PTD01 = BJ) – MARYLAND ONLY: This loop is used to convey the generation usage transferred in/out for the period. Required if the account has net metering or is a part of an Aggregated Net Energy Metering (ANEM) Family.

Cancellations

- The MEA is an optional segment on a cancellation.
- Cancel 867s will be by metering period, i.e. same as the original 867's. Rebills may be for multiple periods.
- The "from" and "to" dates on the cancel must match exactly with the original usage.
- On a cancellation, the signs are not reversed (don't change positive usage to negative usage). Quantities will not be negative on Cancels. Cancels should be interpreted as negative consumption.
- The consumption sent in the cancel must match the consumption sent in the original transaction.
- Cancels must be sent at the same level of detail as the original usage.
 - PA: Cancels must include all account and summary information, however, it is optional to include the PM loops.

Restatements	 In order to restate usage for a period, the metering party must first completely cancel all usage for that period; then send the full set of restatement transactions. If you receive a cancellation, you will not necessarily receive a restatement (i.e. if the data was sent to you in error in the first place). The "from" and "to" dates on the restatement transactions do not have to match the corresponding original or cancel transactions for the same period. Restatements across multiple cycles may match original from and to dates or may cross bill cycles. An 867 cancel can be followed by an 867 original the next month. The metering period would include the metering period from the cancelled and the current usage.
Reporting of usage if supplier is not providing 100% of generation	The usage information provided in the 867 is the total usage not the prorated information. Meter reading party will always send total consumption rounded to nearest kWh.
LDC Definitions:	 The term LDC (Local Distribution Company) in this document refers to the utility. Each state may refer to the utility by a different acronym: EDC – Electric Distribution Company (Pennsylvania, Delaware) LDC – Local Distribution Company (New Jersey) EC – Electric Company (Maryland)
ESP Definitions:	 The term ESP (Energy Service Provider) in this document refers to the supplier. Each state may refer to the supplier by a different acronym: EGS – Electric Generation Supplier (Pennsylvania) TPS – Third Party Supplier (New Jersey) ES – Electric Supplier (Delaware) ES – Electricity Supplier (Maryland)
Cross Reference Number between 867, 810, and 820	 There is a cross reference between billing related documents. 867 – BPT02 – This document establishes the cross reference number. 810 – BIG05 – This document must have the cross reference number from the respective 867. 820 – REF6O (letter O) – When making the other party whole, the 820 to the non-billing party must also include the cross reference number from 867/810 document.
Total Usage is sent, even if supplier is not providing 100% of load.	The usage information provided in the 867 is the total usage not the prorated information. Meter reading party will always send total consumption rounded to nearest kWh. It is the obligation of the receiving party to apply their participation percentage to the total provided to determine their actual obligation. If the decimal is .50000 or less, it will go to the lower whole number; if the decimal is .50001 or greater, it will go to the next higher whole number).

<u>Pennsylvania Notes</u>

If a supplier elects to receive only summary level information for an interval account, they will receive an 867MU document.

The 867IU document will be used when interval detail and summary level data is being sent.

Pennsylvania:

- Citizens and Wellsboro will provide detail interval data using 867IU with BB, BO, PM loops. The default is summary and 867MU and is sent with BB, SU, PM (BPT04 will be "DD").
- Duquesne Will provide detail interval data using 867IU with BB, SU, and BQ loops. If summary level is requested, will provide an 867MU with BB, SU, and PM loops (BPT04 will be "X5").
- FIRST ENERGY Will provide detail interval data using 867IU with BB, SU, and BQ loops. If summary level is requested, will provide an 867MU with BB, SU, and PM loops (BPT04 will be "X5").
- PECO If account-level interval detail is requested, will provide using 867IU with BB, SU, and BQ loops. If meter-level interval detail is requested, will provide using BB, BO, and PM loops. Else, will provide an 867MU with BB, SU, and PM loops (BPT04 in 867MU will be "DD" for AMR monthly metered accounts and "X5" for interval metered accounts).
- PPL EU Will provide detail interval data using 867IU with BB, SU, and BQ loops. If summary level is requested, will provide an 867MU with BB and SU loops (BPT04 will be "DD")
- UGI No interval customers.

Requirements for uniform support of Net Metered Customers:

What document is sent if supplier elects NOT to

receive detail interval

data?

- BB (Billed Summary) Loop –reports the monthly billed summary usage for net metered customers.
 - a. All PA EDCs (Excluding FirstEnergy)
 - i. When customer's consumption is greater than generation, the billed KH usage in the QTY02 will be reported as net KH (generation subtracted from total consumption).
 - ii. When customer's generation is greater than consumption, the billed usage in the QTY02 will be reported as 0 (zero) KH.
 - iii. In either scenario, the QTY02 will never be signed negative.
 - b. FirstEnergy Companies

i. Reports the consumption (delivered) KH as the billed usage SU (Metered Services Summary) Loop –reports the summary usage for net metered customers.

- a. All PA EDCs (Excluding FirstEnergy)
 - i. When the customer's consumption is greater than generation, the KH will be reported as net consumption (QTY01 w/actual = QD or estimated = KA) with the total generation subtracted from total consumption.
 - ii. When the customer's generation is greater than consumption, the KH will be reported as net generation (actual = 87 or estimated = 9H) with the total consumption subtracted from total generation).
 - iii. In either scenario, the QTY02 will never be signed negative.
- b. FirstEnergy Companies
 - i. Instead of reporting net KH in SU loop, FirstEnergy will report the consumption and generation separately
 - 1. Reports consumption (delivered) KH (QTY01 w/actual = QD or estimated = KA)
 - 2. Reports generation (generation) KH (QTY01 w/actual = 87 or estimated = 9H)

March 31, 2020

Version 6.7

Requirements for uniform support of Net Metered Customers (continued):

Banked KH adjustment

for excess customer

generation:

PM (Meter Services Detail) Loop – The meter loop will report the meter level detail for net metered customers. This may be done via one of the three following configurations:

- 1. Single meter reporting both in and out flow. The PM loop for KH will be repeated, one reporting consumption and one reporting generation. Used by First Energy and PPL (MV90 only).
 - a. The meter number will be identical for each loop.
 - b. In the consumption loop, the meter role (REF*JH) will be 'A' (additive) and the KH usage will be reported in quantity delivered (actual = QD or estimated = KA).
 - i. FirstEnergy Only: sends channel number (REF6W) with value of "1"
 - c. In the generation loop, the meter role (REF*JH) will be 'S' (subtractive) and the KH usage will be reported as net generation delivered (actual = 87 or estimated = 9H).
 - i. FirstEnergy Only:
 - 1. Sends channel number (REF6W) with value of "2"
 - 2. Sends generation loop even when there is no generation reported for the period.
 - d. The QTY02 will never be signed negative
 - e. Being this is a single meter, the meter attributes will remain the same for both PM loops.
- 2. Single meter reporting only the net consumption, one PM loop for KH. Used by PPL (non-MV90), Duquesne Light and Citizens & Wellsboro
 - a. When customer's consumption is greater than generation, the billed KH usage in the QTY02 will be reported as net KH (generation subtracted from total consumption). The meter role (REF*JH) will be 'A' (additive).
 - b. When customer's generation is greater than consumption, the KH usage will be reported as net generation delivered (actual = 87 or estimated = 9H). The meter role (REF*JH) will be 'S' (subtractive).
 - c. The QTY02 will never be signed negative.
- 3. Separate meters, one reporting inflow and another meter reporting outflow. The PM loop will be repeated for KH, one meter reporting consumption and one meter reporting generation. Used by PECO and UGI.
 - a. The meter number should be unique for each KH loop. The meter attributes for each KH loop may have different values.
 - b. In the consumption loop, the meter role (REF*JH) will be 'A' (additive) and the KH usage will be reported in quantity delivered (actual = QD or estimated = KA).
 - c. In the generation loop, the meter role (REF*JH) will be 'S' (subtractive) and the KH usage will be reported as net generation delivered (actual = 87 or estimated = 9H).
 - d. The QTY02 will never be signed negative.

Applies to FirstEnergy companies, PPLEU, Duquesne and UGI (PECO does NOT bank excess customer generation)

The LDC will apply excess generation KH from a prior month(s) into the billed quantity (D1) segment of the billed summary (BB) loop of the 867MU/IU transaction sets reducing billed consumption. When this occurs, the sum of the metered services (PM) loops will not equal the KH being reporting in the BB loop. In the event the banked KH is not exhausted it will carry over to the following month. Suppliers should understand this practice and examine current billing processes for net metered customers. In most cases, the customer's actual consumption and generation is made available in the PM (meter) loops of the 867MU/IU.

Settlement process for excess customer generation varies by EDC. EGSs should contact each EDC directly to obtain this information.

	New Jersey Notes
Rockland Electric Company	Rockland Electric Company (RECO) does not utilize this EDI implementation guideline. RECO uses the New York EDI implementation guidelines.
What document is sent if supplier elects NOT to receive detail interval data?	 The standard method for interval accounts is to always pass interval data. JCP&L – JCP&L will allow the summary option under the same guidelines they use in PA. JCP&L will provide detail interval data using 867IU with BB, SU, and BQ loops. If summary level is requested, will provide an 867MU with BB, SU, and PM loops (BPT04 will be "X5"). Atlantic City Electric will allow a summary option. Atlantic City Electric will provide detail interval data using 867IU with BB, SU, and BQ loops. If summary level is requested, will provide an 867MU with BB, SU, PM, and BC loops. (BPT04 will be "X5") PSE&G will not support supplier having a choice to receive summary only.
Cancel / Rebill when supplier is no longer active supplier	 PSE&G: Before August 1st, 2016 (867 bill window close date) PSE&G cannot provide consolidated billing for ESP's who are not supplier of record at the time the cancel / rebill is processed. The process for Cancel/ Rebill for an ESP who is not customer's current supplier of record is: PSE&G will cancel charges from 810(s) that correspond to the original 867(s) being canceled. Send 867(s) cancel Send 867(s) rebill noting that customer billing option is DUAL. PSE&G will issue an 820 and reduce a future payment by the amount of the canceled 810(s) (on the scheduled date of the 820). TPS must Dual bill customer for the rebilled 867(s).
Net Metering Information:	 PSE&G: On or After August 1st, 2016 (867 bill window close date) PSE&G implemented a system enhancement that will allow the billing option to remain consolidated for a cancel/rebill processed after the customer-supplier relationship has terminated. PSE&G will cancel charges from 810(s) that correspond to the original 867(s) being canceled. Send 867(s) cancel Send 867(s) rebill noting that customer billing option is CONSOLIDATED. PSE&G will issue an 820 and reduce a future payment by the amount of the canceled 810(s) (on the scheduled date of the 820). TPS must send in 810 charges for the rebilled 867(s). PSE&G will issue an 820 for the amount of the 810(s) for the rebilled 867(s). PSE&G is currently using a bi-directional meter for the TPS's and providing the in reading as well as the out reading to the EDI process. For Clean Power suppliers a watthour meter which goes both ways ultimately provides the net usage to the EDI process. Atlantic City Electric- Is currently using watt-hour meters that go both ways ultimately providing the net usage to the EDI process. This is for both the TPS's as well as the Clean Power providers. JCP&L-Is currently using a bi-directional meter for both the TPS's as well as the Clean Power suppliers. The bi-directional meter is providing the in and the out reading to the EDI process. This is for both the TPS's as well as the Clean Power suppliers. The bi-directional meter is providing the in and the out reading to the EDI process. The EDI summary loop will include the net usage.

Data Requirements for uniform support of Net Metered Customers:

- BB (Billed Summary) Loop –reports the monthly billed summary usage for net metered customers.
 - 1. When customer's consumption is greater than generation, the billed KH usage in the QTY02 will be reported as net KH (generation subtracted from total consumption).
 - 2. When customer's generation is greater than consumption, the billed usage in the QTY02 will be reported as 0 (zero) KH.
 - 3. In either scenario, the QTY02 will never be signed negative.
- SU (Metered Services Summary) Loop –reports the summary usage for net metered customers.
 - 1. When the customer's consumption is greater than generation, the KH will be reported as net consumption (QTY01 w/actual = QD or estimated = KA) with the total generation subtracted from total consumption.
 - 2. When the customer's generation is greater than consumption, the KH will be reported as net generation (actual = 87 or estimated = 9H) with the total consumption subtracted from total generation).
 - 3. In either scenario, the QTY02 will never be signed negative.
- PM (Meter Services Detail) Loop The meter loop will report the meter level detail for net metered customers. This may be done via one of the three following configurations:
 - 1. Single meter reporting both in and out flow. The PM loop for KH will be repeated, one reporting consumption and one reporting generation. Used by Atlantic City Electric and PSE&G (Note: PSE&G sends one PM loop with separate QTY segments reporting generation and consumption)
 - a. The meter number will be identical for each loop. (Note: PSE&G sends one PM loop)
 - b. In the consumption loop, the meter role (REF*JH) will be 'A' (additive) and the KH usage will be reported in quantity delivered (actual = QD or estimated = KA). (PSE&G sends meter role of 'A')
 - c. In the generation loop, the meter role (REF*JH) will be 'S' (subtractive) and the KH usage will be reported as net generation delivered (actual = 87 or estimated = 9H). (N/A to PSE&G)
 - d. The QTY02 will never be signed negative
 - e. Being this is a single meter, the meter attributes will remain the same for both PM loops. (PSE&G sends one PM loop)
 - 2. Single meter reporting only the net consumption, one PM loop for KH. (Used by JCP&L and Atlantic City Electric)
 - a. When customer's consumption is greater than generation, the billed KH usage in the QTY02 will be reported as net KH (generation subtracted from total consumption). The meter role (REF*JH) will be 'A' (additive).
 - b. When customer's generation is greater than consumption, the KH usage will be reported as net generation delivered (actual = 87 or estimated = 9H). The meter role (REF*JH) will be 'S' (subtractive).
 - c. The QTY02 will never be signed negative.

March 31, 2020 Version 6.7

Data Requirements for uniform support of Net Metered Customers (Continued):	 Separate meters, one reporting inflow and another meter reporting outflow. The PM loop will be repeated for KH, one meter reporting consumption and one meter reporting generation. The meter number should be unique for each KH loop. The meter attributes for each KH loop may have different values. In the consumption loop, the meter role (REF*JH) will be 'A' (additive) and the KH usage will be reported in quantity delivered (actual = QD or estimated = KA). In the generation loop, the meter role (REF*JH) will be 'S' (subtractive) and the KH usage will be reported as net generation delivered (actual = 87 or estimated = 9H). The QTY02 will never be signed negative.
NJ Clean Power Choice	Pursuant to Board Order, Docket No. QO18040393, the Clean Power Choice Program is coming to an end effective February 28, 2019. The EDI segments and data elements used for Clean Power Choice will remain in the EDI Implementation Guidelines to support any cancel/rebill scenarios or for future use in the event another program is established that may need these data elements

Maryland Notes

If a supplier elects to receive only summary level information for an interval account, they will receive an 867MU document.

With PHI new CIS, the 'SI' process will be supported by ALL interval metered accounts, not just those with smart meters.

Note: BGE – The default is that an ESP will receive interval data at the summary level only (BPT04 = DD)

- If an ESP wants to receive interval data at the detail level for AMI/Smart metered accounts, the ESP must submit "SI" in the LIN05 and "DETAIL" in the REF17.
- The ESP may request detail level interval data post enrollment by submitting a Change Request at a later date.
- For non-AMI/Smart metered interval accounts, the ESP will receive 867MU with the detail interval data posted to BGE's website.

If a supplier elects to receive detail and summary level information for an interval account, this is what they will receive, by utility.

- Delmarva & PEPCO Supplier will receive 867IU for all accounts (unless supplier has requested summary data. If the supplier elects NOT to receive detail interval data, PHI will send EDI 867MU (BB/SU/PM/BC loops) with BPT04 = 'X5' for accounts the supplier requested summary interval usage. BG&E For AMI/Smart metered accounts, will provide 867IU if requested as stated above. For non-AMI/Smart metered accounts, no 867IU will be sent. Interval data will be provided on web; however, an 867MU will be provided for the Summary data.
- Potomac Edison Will provide detail interval data using 867IU with BB, SU, and BQ loops. If summary level is requested, will provide an 867MU with BB, SU, and PM loops (BPT04 will be "X5").

If the event the utility experiences multiple meter exchanges during the same service period, the following format applies.

867MU – PTD*PM Loop – Position 020

DTM*150*20130114 – Service Period Start DTM*514*20130117 – First Meter Exchange on 1/17/2013 DTM*514*20130117 DTM*514*20130119 – Second Meter Exchange on 1/19/2013 DTM*514*20130119 DTM*151*20130213 – Service Period End

Requirements for uniform support of Net Metered Customers:

Looping of DTM

segments in the PM

(meter) loop when multiple meter

> exchanges occur during the same

> > service period

- BB (Billed Summary) Loop –reports the monthly billed summary usage for net metered customers.
 - 1. When customer's consumption is greater than generation, the billed KH usage in the QTY02 will be reported as net KH (generation subtracted from total consumption).
 - 2. When customer's generation is greater than consumption, the billed usage in the QTY02 will be reported as 0 (zero) KH.
 - 3. In either scenario, the QTY02 will never be signed negative.
- SU (Metered Services Summary) Loop –reports the summary usage for net metered customers.
 - 1. When the customer's consumption is greater than generation, the KH will be reported as net consumption (QTY01 w/actual = QD or estimated = KA) with the total generation subtracted from total consumption.

if supplier elects NOT to receive detail interval data?

What document is sent

- 2. When the customer's generation is greater than consumption, the KH will be reported as net generation (actual = 87 or estimated = 9H) with the total consumption subtracted from total generation).
- 3. In either scenario, the QTY02 will never be signed negative.
- PM (Meter Services Detail) Loop The meter loop will report the meter level detail for net metered customers. This may be done via one of the three following configurations:
 - 1. Single meter reporting both in and out flow. The PM loop for KH will be repeated, one reporting consumption and one reporting generation. (Delmarva, PEPCO)
 - a. The meter number will be identical for each loop.
 - b. In the consumption loop, the meter role (REF*JH) will be 'A' (additive) and the KH usage will be reported in quantity delivered (actual = QD or estimated = KA).
 - c. In the generation loop, the meter role (REF*JH) will be 'S' (subtractive) and the KH usage will be reported as net generation delivered (actual = 87 or estimated = 9H).
 - d. The QTY02 will never be signed negative
 - e. Being this is a single meter, the meter attributes will remain the same for both PM loops.
 - 2. Single meter reporting only the net consumption, one PM loop for KH. (Potomac Edison& BGE non-Time of Use. See below for BGE Time of Use reporting))
 - a. When customer's consumption is greater than generation, the billed KH usage in the QTY02 will be reported as net KH (generation subtracted from total consumption). The meter role (REF*JH) will be 'A' (additive).
 - b. When customer's generation is greater than consumption, the KH usage will be reported as net generation delivered (actual = 87 or estimated = 9H). The meter role (REF*JH) will be 'S' (subtractive).
 - c. The QTY02 will never be signed negative.
 - 3. Separate meters, one reporting inflow and another meter reporting outflow. The PM loop will be repeated for KH, one meter reporting consumption and one meter reporting generation.
 - a. The meter number should be unique for each KH loop. The meter attributes for each KH loop may have different values.
 - b. In the consumption loop, the meter role (REF*JH) will be 'A' (additive) and the KH usage will be reported in quantity delivered (actual = QD or estimated = KA).
 - c. In the generation loop, the meter role (REF*JH) will be 'S' (subtractive) and the KH usage will be reported as net generation delivered (actual = 87 or estimated = 9H).
 - d. The QTY02 will never be signed negative.

The following describes each utility's process for reporting Demand (K1) when multiple suppliers serve the same customer during the same billing period.

BGE

The demands passed in each 867MU/IU reflects the highest demand values that occurred during each supplier's sub-period, NOT the entire billing period. Demand values for each sub-period are NOT prorated.

BB Loop / QTY*D1 - The highest overall demand (regardless of TOU Peak) that occurred in the supplier's sub-period. Although coded "D1", this may not be the highest overall demand billed by BGE for the entire billing period.

Demand Reporting – Multiple suppliers during same billing period

BB Loop / QTY*QD - The highest recorded On Peak demand that occurred in the supplier's sub-period (This may or may not be the highest overall billed "D1" demand).

Potomac Edison (FirstEnergy)

Will send the peak demand for the entire billing period in all 867s created for the period. If the customer's peak demand is 10.4 K1 for the whole billing period, all suppliers would receive 10.4K1 in their 867.

PHI (Delmarva MD & PEPCO MD)

Will prorate demand for the entire period based on the number of days served by the supplier.

If max demand for entire period is 90 and one supplier serves 15/30 days, PHI will send that supplier 45, if another supplier serves 10/30 days, will send that supplier 30, and if utility has remaining 5/30 days, they will have 15. PHI will implement this to be consistent with all meter types and to ensure the customer is never charged more than the maximum.

Requirements for BGE non-residential Time of Use (TOU) Net Metered Customers: BGE non-residential Time of Use (TOU) only, refer to above section for non-TOU customer net metering data reporting requirements. Samples provided in the back of this implementation guideline.

BGE's process 'trues up' customer net metering bank(s) upon supplier switch. BGE is settling on the KH value in the BB (billed) loop at PJM. BGE maintains a 'bank' for each TOU reading. When a customer's TOU reading for the month is generation it is placed into the bank. Once the TOU reading for the month is positive consumption, BGE will apply the bank. This process is not shown in the PM loop, as the PM loop is reporting meter readings not billing adjustments.

BB (Billed Summary) Loop –reports the monthly billed summary usage for net metered customers.

- 1. BGE will bill all positive consumption for each TOU reading minus any banked excess generation.
- 2. The QTY02 will never be signed negative.

SU (Metered Services Summary) Loop –reports the summary usage for net metered customers. This reports the customer's net usage for the billing period.

- 1. When the customer's consumption is greater than generation, the KH will be reported as net consumption (QTY01 w/actual = QD or estimated = KA) with the total generation subtracted from total consumption.
- 2. When the customer's generation is greater than consumption, the KH will be reported as net generation (actual = 87 or estimated = 9H) with the total consumption subtracted from total generation).
- 3. In either scenario, the QTY02 will never be signed negative.

PM (Meter Services Detail) Loop – The meter loop reports the meter level detail for TOU net metered customers from the metering system. Single meter reporting On-Peak, Off-Peak and Intermediate-Peak Time TOU in one PM loop.

- 1. The meter role (REF*JH) will always report as additive (REF*JH*A) regardless if any generation is reported in the PM loop.
- 2. Each TOU reading may be reported as consumption (QTY01 w/actual = QD or estimated = KA) or generation (QTY01 w/actual = 87 or estimated = 9H) based on the usage. Note the TOU readings in the PM loop will not be based on the meter role, there will be cases where at least one TOU is generation and the meter role is 'Additive'.
- 3. The QTY02 will never be signed negative

March 31, 2020 Version 6.7

Net Metering – Excess Maryland legislation PUA 7-306 states the Electric Company, not the Electricity Supplier, **Customer Generation** must pay the customer for accrued net excess generation on an annual basis (April meter Furthermore the rule states... "For customers served by an electricity supplier, the read). dollar value of the net excess generation shall be equal to the generation or commodity rate that the customer would have been charged by the electricity supplier multiplied by the number of kilowatt-hours of net excess generation." To support this requirement, each LDC maintains customer generation balance and for any excess generation during the annual true-up, the customer is credited based on their LDC or EGS rate. Net Metering - banked Applies to Potomac Edison, BG&E, Delmarva MD and PEPCO MD KH adjustment for excess customer The LDC will apply excess generation KH from a prior month(s) into the billed quantity (D1) segment of the billed summary (BB) loop of the 867MU/IU transaction sets reducing generation billed consumption. When this occurs, the sum of the metered services (PM) loops will not equal the KH being reporting in the BB loop. In the event the banked KH is not exhausted it will carry over to the following month.

With MD EDI Change Control 053, the Generation Transferred In/Out (PTD01 = BJ) loop will identify the generation kWh being transferred In/Out as well as any Starting Bank or Ending Bank generation kWh.

In conjunction with Maryland excess generation rules, the EGS should understand this banked rollover practice and examine current billing processes for net metered customers. Example of banked KH adjustment (non-TOU customers)...

Month 1 – Customer consumes 200KH and generates 500KH, net is excess generation of 300KH. The utility sends 0KH in BB loop. Supplier would bill customer 0 KH

Month 2 – Customer consumes 500KH and generates 150KH, net is consumption of 350KH. The utility rolls banked excess of 300KH from prior month and applies to current month bill. Utility and supplier bill customer for 50KH (350KH – 300KH)

Settlement process for excess customer generation varies by LDC. Suppliers should contact each LDC directly to obtain this information.

867 Monthly Usage (4010)

How to Use the Implementation Guideline

	DEE	٩						
Segment:	KEF	Reference	Identification	n				
Position:	030							This section is
Loop:	LIN							used to show the
Level:	Detail							X12 Rules for
Usage:	Optional							this segment.
Max Use:	>1						(You must look
Purpose:			information	2:	L			further into the
Syntax Notes:			EF02 or REF0 or C04004 is p			or is roqui	rad	grayboxes below for State Rules.
			or C04004 is p					101 State Rules.
Semantic Notes:			lata relating to				icu.	
Comments:	I KLI	54 contains c				CLI 02 .	\square	
Notes:	Recomme	ended by UI	G		}	The "N	otes:" se	ection generally
PA Use:	Must be i	dentical to a	ccount numbe	r as it	- -			by the Utility Industry
	appears o	n the custom	ner's bill, exclu	uding		Group (UIG).	
	punctuation	on (spaces, d	lashes, etc.).	Significant				
			eros must be ir					
								on is used to show the
	Request:		Required					l State's Rules for
	Accept R	-	Required			in	plemen	tation of this segment.
	Reject Re		Required					
NJ Use:	Same as I				$ \rightarrow $			
Example:	REF*12*	2931839200			} }			
					One or more examples.			
						One or m	lore exai	inples.
		Dat	ta Element Si	ımmarv				inples.
Ref.	Data	Dat	ta Element Sı	ımmary	L			mpies.
Ref. <u>Des.</u>		Dat <u>Name</u>	ta Element Sı	ımmary	L	One or in		112 Attributes
		<u>Name</u> Reference]	Identification	Qualifier	L			12 Attributes
Des.	Element	<u>Name</u> Reference]	Identification	Qualifier dentification	L		<u>X</u>	12 Attributes
Des.	Element	<u>Name</u> Reference]	Identification Ig the Reference I Billi	Qualifier dentification ng Accoum	t		<u>X</u>	12 Attributes
Des.	Element	<u>Name</u> Reference I Code qualifyin	Identification	Qualifier dentification ng Accoum			<u>X</u> M	12 Attributes
Des.	Element 128	Name Reference I Code qualifyin 12 Reference I	Identification Ig the Reference I Billi LDC Identificatio	Qualifier dentification ng Accoun ssigned a	account 1	number fo	X M r end us X	12 Attributes 1 ID 2/3 1e customer. AN 1/30
Des. Must Use REF01	Element 128	Name Reference I Code qualifyin 12 Reference I Reference I	Identification Ig the Reference I Billi LDC Identification rmation as do	Qualifier dentification ng Accoun ssigned a	account 1	number fo	X M r end us X	12 Attributes 1 ID 2/3 e customer.
Des. Must Use REF01	Element 128	Name Reference I Code qualifyin 12 Reference I	Identification Ig the Reference I Billi LDC Identification rmation as do	Qualifier dentification ng Accoun ssigned a	account 1	number fo	X M r end us X	12 Attributes 1 ID 2/3 1e customer. AN 1/30
Des. Must Use REF01	Element 128	Name Reference I Code qualifyin 12 Reference I Reference I	Identification Ig the Reference I Billi LDC Identification rmation as do	Qualifier dentification ng Accoun ssigned a	account 1	number fo	X M r end us X	12 Attributes 1 ID 2/3 1e customer. AN 1/30
Must Use REF01	Element 128 127	Name Reference I Code qualifyin 12 Reference I Reference info Identification (Identification Ig the Reference I Billi LDC Identification rmation as de Qualifier	Qualifier dentification ng Accoun ssigned a for a particu	account 1 Ilar Transa	number fo	X M r end us X as specifie	12 Attributes I ID 2/3 re customer. AN 1/30 red by the Peference
Des. Must Use REF01	Element 128 127 he Th	Name Reference I Code qualifyin 12 Reference I Reference info Identification (mese are X12	Identification g the Reference I Billi LDC Identificatio rmation as de Qualifier code descript	Qualifier dentification ng Accoun ssigned a for a particu	account 1 Ilar Transa This co	number fo ction Set or a plumn sho	X M r end us X as specifie ws the X	12 Attributes I ID 2/3 we customer. AN 1/30 ed by the reference X12 attributes for each
Must Use REF01	Element 128 127 he Th wh	Name Reference I Code qualifyin 12 Reference I Reference info Identification (mese are X12 hich often do	Identification g the Reference I Billi LDC Identificatio rmation as de Qualifier code descript o not relate to the	Qualifier dentification ng Accoun issigned a for a particu ions, the	account i ilar Transa This co data el	number fo ction Set or a plumn sho	X M r end use X as specifie ws the 3 ease refe	12 Attributes 1 ID 2/3 ee customer. AN 1/30 ed by the efference X12 attributes for each er to Data Dictionary
Must Use REF01	Element 128 127 he Th es Th inf	Name Reference I Code qualifyin 12 Reference Info Identification O messe are X12 hich often do formation wa	Identification g the Reference I Billi LDC Identificatio rmation as de Qualifier code descript o not relate to to e are trying to	Qualifier dentification ng Accoun issigned a for a particu ions, the send.	account i ilar Transa This co data el	number fo ction Set or a olumn sho ement. Pl	X M r end use X as specifie ws the 3 ease refe	12 Attributes 1 ID 2/3 ee customer. AN 1/30 ed by the efference X12 attributes for each er to Data Dictionary
Must Use REF01 Must Use REF02 This column shows t use of each data element. If state rule	Element 128 127 he Th es Ur	Name Reference I Code qualifyin 12 Reference Info Identification (mese are X12 nich often do formation wan	Identification g the Reference I Billi LDC Identificatio rmation as de Qualifier code descript o not relate to to e are trying to X12 cannot k	Qualifier dentification ng Accoun issigned a for a particu ions, the send. teep	account i ilar Transa This co data el for ind	number fo ction Set or a olumn sho ement. Pl ividual sta	X M r end use X as specifie ws the 2 ease refe ate rules.	12 Attributes 1 ID 2/3 ee customer. AN 1/30 ed by the efference X12 attributes for each er to Data Dictionary
Must Use REF01 Must Use REF02 This column shows t use of each data element. If state rule differ, this will show "Conditional" and th conditions will be	Element 128 127 he Th wh inf e Ur up	Name Reference I Code qualifyin 12 Reference I Reference I Reference I Identification (mese are X12 hich often do formation we nfortunately, with our coo	Identification Ig the Reference I Billi LDC Identification rmation as de Qualifier code descript o not relate to the e are trying to X12 cannot k de needs so we	Qualifier dentification ng Accoun issigned a for a particu ions, the send. teep e	account i ilar Transa This co data el for ind M = M	number fo ction Set or a olumn sho ement. Pl ividual sta landatory,	$\frac{X}{M}$ r end use x as specifie we the X ease reference ate rules. O= Opt	$\frac{12 \text{ Attributes}}{1 \text{ ID } 2/3}$ The customer. AN 1/30 and by the deference X12 attributes for each er to Data Dictionary tional, X = Conditional
Must Use REF01 Must Use REF02 This column shows t use of each data element. If state rule differ, this will show "Conditional" and th conditions will be explained in the	Element 128 127 he Th e Ur up off ex off	Name Reference I Code qualifyin 12 Reference I Reference I Reference I Identification (mese are X12 hich often do formation wa nfortunately, with our co- ten change th	Identification Ig the Reference I Billi LDC Identification rmation as de Qualifier code description on trelate to the e are trying to X12 cannot k de needs so was ne meanings o	Qualifier dentification ng Accoun ssigned a for a particu ions, the send. teep e f	account i ilar Transa This co data el for ind M = M AN = A	number fo ction Set or a olumn sho ement. Pl ividual sta landatory, Alphanum	X M r end us X as specifie ws the X ease refe ate rules. O= Opt eric, N#	$\frac{12 \text{ Attributes}}{1 \text{ ID } 2/3}$ The customer. AN 1/30 and by the deference X12 attributes for each for to Data Dictionary tional, X = Conditional # = Decimal value,
Must Use REF01 Must Use REF02 This column shows t use of each data element. If state rule differ, this will show "Conditional" and th conditions will be	Element 128 127 he Th wh inf e Ur up off ex	Name Reference I Code qualifyin 12 Reference Info Identification O messe are X12 hich often do formation we fortunately, with our co- ten change th isting codes.	Identification Ig the Reference I Billi LDC Identification rmation as de Qualifier code descript o not relate to the e are trying to X12 cannot k de needs so we	Qualifier dentification ng Accoun ssigned a for a particu ions, the send. teep e f	account i ilar Transa This co data el for ind M = M AN = A	number fo ction Set or a olumn sho ement. Pl ividual sta landatory,	X M r end us X as specifie ws the X ease refe ate rules. O= Opt eric, N#	$\frac{12 \text{ Attributes}}{1 \text{ ID } 2/3}$ The customer. AN 1/30 and by the deference X12 attributes for each for to Data Dictionary tional, X = Conditional # = Decimal value,
Must Use REF01 Must Use REF02 This column shows t use of each data element. If state rule differ, this will show "Conditional" and th conditions will be explained in the	Element 128 127 he Th wh inf e Ur up off ex	Name Reference I Code qualifyin 12 Reference Info Identification O messe are X12 hich often do formation we fortunately, with our co- ten change th isting codes.	Identification Ig the Reference I Billi LDC Identification rmation as de Qualifier code descript o not relate to the are trying to X12 cannot k de needs so wo ne meanings o See graybox	Qualifier dentification ng Accoun ssigned a for a particu ions, the send. teep e f	account I ilar Transa This co data el- for ind M = M AN = A ID = Ic	number fo ction Set or a olumn sho ement. Pl ividual sta landatory, Alphanum dentificatio	$\frac{X}{M}$ r end us x as specifie we the X ease refe ate rules. O= Opt heric, N# on, R = 1	$\frac{12 \text{ Attributes}}{1 \text{ ID } 2/3}$ The customer. AN 1/30 and by the efference X12 attributes for each for to Data Dictionary tional, X = Conditional t = Decimal value, Real
Must Use REF01 Must Use REF02 This column shows t use of each data element. If state rule differ, this will show "Conditional" and th conditions will be explained in the	Element 128 127 he Th wh inf e Ur up off ex	Name Reference I Code qualifyin 12 Reference Info Identification O messe are X12 hich often do formation we fortunately, with our co- ten change th isting codes.	Identification Ig the Reference I Billi LDC Identification rmation as de Qualifier code descript o not relate to the are trying to X12 cannot k de needs so wo ne meanings o See graybox	Qualifier dentification ng Accoun ssigned a for a particu ions, the send. teep e f	account I ilar Transa This co data el- for ind M = M AN = A ID = Ic	number fo ction Set or a olumn sho ement. Pl ividual sta landatory, Alphanum	$\frac{X}{M}$ r end us x as specifie we the X ease refe ate rules. O= Opt heric, N# on, R = 1	$\frac{12 \text{ Attributes}}{1 \text{ ID } 2/3}$ The customer. AN 1/30 and by the efference X12 attributes for each for to Data Dictionary tional, X = Conditional t = Decimal value, Real
Must Use REF01 Must Use REF02 This column shows t use of each data element. If state rule differ, this will show "Conditional" and th conditions will be explained in the	Element 128 127 he Th wh inf e Ur up off ex	Name Reference I Code qualifyin 12 Reference Info Identification O messe are X12 hich often do formation we fortunately, with our co- ten change th isting codes.	Identification Ig the Reference I Billi LDC Identification rmation as de Qualifier code descript o not relate to the are trying to X12 cannot k de needs so wo ne meanings o See graybox	Qualifier dentification ng Accoun ssigned a for a particu ions, the send. teep e f	account I ilar Transa This co data el- for ind M = M AN = A ID = Ic	number fo ction Set or a olumn sho ement. Pl ividual sta landatory, Alphanum dentificatio	$\frac{X}{M}$ r end us x as specifie we the X ease refe ate rules. O= Opt heric, N# on, R = 1	$\frac{12 \text{ Attributes}}{1 \text{ ID } 2/3}$ The customer. AN 1/30 and by the efference X12 attributes for each for to Data Dictionary tional, X = Conditional t = Decimal value, Real

867 Product Transfer and Resale Report X12 Structure

Functional Group ID= \mathbf{PT}

Pos. Seg. Req. Loop Notes and ID ST <u>Name</u> Transaction Set Header Max.Use <u>No.</u> Des. Repeat **Comments** Must Use Μ 010 1 Must Use 020 BPT Beginning Segment for Product Transfer and Μ 1 Resale 050 DTM Date/Time Reference 0 10 075 MEA Measurements 0 20 LOOP ID - N1 5 080 N1 Name 0 1 120 REF Reference Identification 0 12

Detail:

Heading:

	Pos. <u>No.</u>	Seg. <u>ID</u>	Name	Req. <u>Des.</u>	Max.Use	Loop <u>Repeat</u>	Notes and <u>Comments</u>
			LOOP ID – PTD			>1	
Must Use	010	PTD	Product Transfer and Resale Detail	М	1		
	020	DTM	Date/Time Reference	0	10		
	030	REF	Reference Identification	0	20		
			LOOP ID – QTY		·	>1	
	110	QTY	Quantity	0	1		
	160	MEA	Measurements	0	40		

Summary:

	Pos.	Seg.		Req.		Loop	Notes and
	No.	ID	<u>Name</u>	Des.	Max.Use	Repeat	Comments
Must Use	030	SE	Transaction Set Trailer	М	1		

		867 Monthly Usage			
Appl Field	Field Name	Description	EDI Segment	Related EDI Qualifier	Data Type
Heade	r Information				
1	Purpose Code	00 – Original 01 – Cancellation – Cancels an entire Usage	BPT01		X(2)
2	Transaction Reference Number	Unique Number identifying this transaction assigned by the sender of the transaction. This number should be unique over all time. This number will also be shown on the related 810 document (both Bill Ready and Rate Ready), and for cases where the billing party makes the other party whole, on the 820 document.	BPT02		X(30)
3	System Date	Date that the data was processed by the sender's application system.	BPT03		9(8)
4	Report Type Code	"DD" Monthly Usage "X4" Summarized data for interval account at account level "X5" Summarized data for interval account at meter level "KJ" Meter Changeout when Meter Agent Changes – Monthly Usage (used to tell the receiver that this is a partial usage statement. The billing agent must sum the KJ usage and the DD usage to calculate the bill.)	BPT04	BPT01	X(2)
5	Final Indicator	Indicates if this is a final reading for that particular ESP (e.g., customer moves, customer switches, etc.).	BPT07 = \mathbf{F}		X(1)
6	Transaction Reference Number	Transaction Reference Number echoed from BPT02 of the Original Transaction	BPT09		X(30)
7	Document Due Date/Time	The last date/time that information will be accepted by the billing party for processing the bill. If 810 is received after this date/time, and the billing party cannot process it, they must notify the non-billing party (via email, phone call, etc.)	DTM02 (CCYYMMD D) and DTM03(HH MM)	DTM01= 649	DTM02= 9(8) and DTM03= 9(4)
8	Percent Participation	Used to express the percentage of the total load that is being supplied by the ESP. This is the multiplication of two fields that are on the 814 transaction, AMT*7N (Participating Interest) and AMT*QY (Eligible Load).	MEA03	MEA02 = NP	9(1).9999 9
9	LDC Name	LDC's Name	N102	N1: N101 = 8S	X(60)
10	LDC Duns	LDC's DUNS Number or DUNS+4 Number	N104	N1: N101 = 8S N103 = 1 or 9	X(13)
11	ESP Name	ESP's Name	N102	N1: N101 = SJ	X(60)
12	ESP Duns	ESP's DUNS Number or DUNS+4 Number	N104	N1: N101 = SJ N103 = 1 or 9	X(13)

12.3	Renewable Energy Provider Name	Renewable Energy Provider 's Name	N102	N1: N101 = G7	X(60)
12.4	Renewable Energy Provider Duns	Renewable Energy Provider 's DUNS Number or DUNS+4 Number	N104	N1: N101 = G7 N103 = 1 or 9	X(13)
13	Customer Name	Customer Name	N102	N1: N101 = 8R	X(60)
14	LDC Account Number	LDC Customer Account Number	REF02	N1: N101*8R Loop REF01 = 12	X(30)
14.2	LDC Account Number - unmetered	LDC Customer Account Number – Unmetered	REF03	N1: N101 = $8R$ REF01 = 12 REF03 = U	X(80)
15	Old Account Number	Previous LDC Customer Account Number	REF02	N1: N101*8R Loop REF01 = 45	X(30)
16	ESP Account Number	ESP Customer Account Number	REF02	N1: N101*8R Loop REF01 = 11	X(30)
17	Billing Type	Indicates type of billing - LDC consolidated Billing (REF02=LDC) - ESP consolidated Billing (REF02=ESP) - Dual bills (REF02=DUAL)	REF02	LIN: REF01= BLT	X(4)
18	Billing Calculation Method	Indicates party to calculate bill. - LDC calculates bill (REF02=LDC) - Each calculate portion (REF02=DUAL)	REF02	LIN: REF01= PC	X(4)
Please	refer to General Notes	for details about the use of the PTD loop cor	nbinations.		
	Monthly	Billed Summary - Loop Required if the LDC	C reads the m		sure level.
	Monthly formation is obtained fro	-	C reads the m		sure level. X(2)
This in	Monthly formation is obtained fro	Billed Summary - Loop Required if the LDO om the billing system to reflect billing data for t	C reads the m his account at		1
This in 19	Monthly formation is obtained fro Product Transfer Type Service Period Begin	Billed Summary - Loop Required if the LDC om the billing system to reflect billing data for to Monthly Billed Summary Start date of the period for which the readings are provided End date of the period for which the readings are provided	C reads the m his account at PTD01= BB	the unit of mea	X(2)
This in 19 20 21 22	Monthly formation is obtained fro Product Transfer Type Service Period Begin Date Service Period End Date Quantity Qualifier	Billed Summary - Loop Required if the LDC om the billing system to reflect billing data for to Monthly Billed Summary Start date of the period for which the readings are provided End date of the period for which the readings are provided Represents that the quantity was billed: D1 - Billed	C reads the m his account at PTD01= BB DTM02 DTM02 QTY01	the unit of mea DTM01 = 150	X(2) 9(8)
This in 19 20 21 22	Monthly formation is obtained fro Product Transfer Type Service Period Begin Date Service Period End Date	Billed Summary - Loop Required if the LDC om the billing system to reflect billing data for to Monthly Billed Summary Start date of the period for which the readings are provided End date of the period for which the readings are provided Represents that the quantity was billed:	C reads the mhis account atPTD01= BBDTM02DTM02	the unit of mea DTM01 = 150	X(2) 9(8) 9(8)
This in 19 20 21 22	Monthly formation is obtained fro Product Transfer Type Service Period Begin Date Service Period End Date Quantity Qualifier Quantity Delivered -	Billed Summary - Loop Required if the LDC om the billing system to reflect billing data for t Monthly Billed Summary Start date of the period for which the readings are provided End date of the period for which the readings are provided Represents that the quantity was billed: D1 - Billed This data is taken from the LDC billing system and reflects the KWH amount on	C reads the m his account at PTD01= BB DTM02 DTM02 QTY01	the unit of mea DTM01 = 150 DTM01 = 151	X(2) 9(8) 9(8) X(2)
This in 19 20 21 22 23	Monthly formation is obtained fro Product Transfer Type Service Period Begin Date Service Period End Date Quantity Qualifier Quantity Delivered - Billed kWh Quantity Delivered	Billed Summary - Loop Required if the LDC om the billing system to reflect billing data for the formation of the period for which the readings are provided End date of the period for which the readings are provided Represents that the quantity was billed: D1 - Billed This data is taken from the LDC billing system and reflects the KWH amount on which the customer was billed. Indicates unit of measurement for quantity of consumption delivered during service period.	C reads the m his account at PTD01= BB DTM02 DTM02 QTY01 QTY02	the unit of mea DTM01 = 150 DTM01 = 151	X(2) 9(8) 9(8) X(2) 9(10).9(4)
This in 19 20 21 22 23 24	Monthly formation is obtained fro Product Transfer Type Service Period Begin Date Service Period End Date Quantity Qualifier Quantity Delivered - Billed kWh Quantity Delivered Unit of Measurement	Billed Summary - Loop Required if the LDC om the billing system to reflect billing data for the formation of the period for which the readings are provided End date of the period for which the readings are provided Represents that the quantity was billed: D1 - Billed This data is taken from the LDC billing system and reflects the KWH amount on which the customer was billed. Indicates unit of measurement for quantity of consumption delivered during service period. KH - Kilowatt Hours Represents that the quantity was billed:	C reads the mhis account atPTD01= BBDTM02DTM02QTY01QTY02QTY03QTY01QTY02	the unit of mea DTM01 = 150 DTM01 = 151	X(2) 9(8) 9(8) X(2) - 9(10).9(4) X(2)

28	Quantity Qualifier	Represents whether the quantity is actual or estimated:	QTY01		X(2)
		KA = Estimated Quantity Delivered QD = Actual Quantity Delivered			
29	Quantity Delivered -	Reflects what the meter actual shows	QTY02	QTY01	-
	Measured or Registered Demand	(including all factors except Power Factor) and is provided at the account level only.			9(10).9(4)
30	Quantity Delivered Unit of Measurement	Indicates unit of measurement for quantity of consumption delivered during service period.	QTY03		X(2)
		K1 - Demand (KW)			
	Metered Services	Summary - Loop required if there are meter		n the account	
31	Product Transfer Type	Metered Services Summary	PTD01= SU		X(2)
32	Service Period Begin Date	Start date of the period for which the readings are provided	DTM02	DTM01 = 150	9(8)
33	Service Period End Date	End date of the period for which the readings are provided	DTM02	DTM01 = 151	9(8)
34	Quantity Qualifier	Represents whether the quantity is actual or estimated: KA = Estimated Quantity Delivered QD = Actual Quantity Delivered 87 = Actual Quantity Received (Net Meter) 9H = Estimated Quantity Received (Net	QTY01		X(2)
35	Quantity Delivered	Represents quantity of consumption delivered for service period. Contains the difference in the meter readings multiplied by various factors, excluding Power Factor.	QTY02	QTY01	- 9(10).9(4)
36	Quantity Delivered Unit of Measurement	Indicates unit of measurement for quantity of consumption delivered during service period. Only valid for KWH and KVARH.	QTY03		X(2)
	Metered Service	es Detail - Loop Required if there are metered	l services on	the account	
37	Product Transfer Type	Metered Services Detail	PTD01= PM		X(2)
38	Service Period Begin Date	Start date of the service period or start date of the changed in meter.	DTM02	DTM01 = 150	9(8)
39	Service Period End Date	End date of the service period or end date of the changed out meter.	DTM02	DTM01 = 151	9(8)
40	Meter Change Out Date	Used in conjunction with either the Service Period Start Date or the Service Period End Date to indicate when a meter has been replaced. Separate PTD loops must be created for each period and meter.	DTM02	DTM01 = 514	X(12)
41	Meter Number	Serial number of this specific meter (may have multiple meters)	REF02	REF01 = MG	X(30)
42	LDC Rate Code	Code indicating the rate a customer is being charged by LDC per tariff. Codes posted on LDC's Web site	REF02	REF01 = NH	X(30)
43	LDC Rate Subclass Code	Used to provide further classification of a rate.	REF02	REF01= PR	X(30)

44	Meter Role	Effect of consumption on summarized total.	REF02	REF01 = JH	X(30)
		S = Subtractive (consumption subtracted from summarized total). A = Additive (consumption contributed to summarized total - do nothing). I = Ignore (consumption did not contribute to summarized total - do nothing).			
45	Number of Dials / Digits and related decimal positions	Needed to determine usage if meter reading rolls over during the billing period. Number of dials on the meter displayed as the number of dials to the left of the decimal, a decimal point, and number of dials to the right of the decimal.	REF02	REF01 = IX	9.9
46	Quantity Qualifier	Represents whether the quantity is actual or estimated: KA = Estimated Quantity Delivered QD = Actual Quantity Delivered 87 = Actual Quantity Received (Net Meter) 9H = Estimated Quantity Received (Net	QTY01		X(2)
47	Quantity Delivered	Represents quantity of consumption delivered for service period. Contains the difference in the meter readings (or as measured by the meter) multiplied by various factors, excluding Power Factor.	QTY02	QTY01	9(10).9(4
48	Quantity Delivered Unit of Measurement	Indicates unit of measurement for quantity of consumption delivered during service period.	QTY03		X(2)
49	Measurement Reference Code	Code identifying category to which measurement applies.	MEA01		X(2)
50	Consumption	Represents quantity of consumption delivered for service period. Contains the difference in the meter readings (or as measured by the meter) multiplied by various factors, excluding Power Factor.	MEA03	MEA02 = PRQ	9(9).9(4)
51	Unit of Measure	Unit of measure for readings.	MEA04		X(2)
52	Beginning Reading	Value specifying beginning reading for the metering period. Factors have not been applied to this value.	MEA05		9(8).9(4)
53	Ending/Single Reading	The ending reading or single reading for metering period. Factors have not been applied to this value.	MEA06		9(8).9(4)
54	Measurement Significance Code	Code used to benchmark, qualify, or further define a measurement value.	MEA07		X(2)
55	Meter Multiplier	Meter Constant - used to represent how many units are reflected by one dial or digit increment.	MEA03	$MEA02 = \mathbf{MU}$	9(9).9(4)
56	Power Factor	Relationship between watts and volt - amperes necessary to supply electric load	MEA03	$MEA02 = \mathbf{ZA}$	9(9).9(4)
57	Transformer Loss Multiplier	Used when a customer owns a transformer and the transformer loss is not measured by the meter. Consumption figures from meter must be adjusted by this factor to reflect true end use consumption.	MEA03	MEA02 = CO	9(9).9(4)

	Unmetered Services	Summary - Loop required if there are unme	tered services	on the accourt	nt
58	Product Transfer Type	Unmetered Services Summary	PTD01= BC		X(2)
59	Service Period Begin Date	Start date of the period for which the readings are provided	DTM02	DTM01 = 150	9(8)
60	Service Period End Date	riod End End date of the period for which the readings I are provided		DTM01 = 151	9(8)
61	Quantity Qualifier	Represents that the quantity is actual: QD = Actual Quantity Delivered	QTY01		X(2)
62	Quantity Delivered	Represents quantity of consumption delivered for service period.	QTY02	QTY01	9(10).9(4)
63	Quantity Delivered Unit of Measurement	Indicates unit of measurement for quantity of consumption delivered during service period.	QTY03		X(2)
Gei	neration Transferred In	n/Out (MD Only) - Loop required for net me	tered account	s or ANEM a	counts
64	Product Transfer Type	Generation Transferred In/Out	PTD01= BJ		X(2)
65	Service Period Begin Date	Start date of the period for which the readings are provided	DTM02	DTM01 = 150	9(8)
66	Service Period End Date	End date of the period for which the readings are provided	DTM02	DTM01 = 151	9(8)
67	Quantity Qualifier	Represents the type of generation kWh: 77 = Generation transferred from another account to this account 78 = Generation transferred from another account to another account 79 = Self-generation applied from Starting Bank QB = Excess generation from True-Up event QE = Ending Bank QH = Starting Bank	QTY01		X(2)
68	Quantity Delivered	Represents quantity of consumption delivered for service period.	QTY02	QTY01	9(10).9(4)
69	Quantity Delivered Unit of Measurement	Indicates unit of measurement for quantity of consumption delivered during service period.	QTY03		X(2)
70	Measurement Reference Code	Code identifying category to which measurement applies.	MEA01		X(2)
71	Consumption	Represents quantity of consumption delivered for service period. Contains the difference in the meter readings (or as measured by the meter) multiplied by various factors, excluding Power Factor.	MEA03	MEA02 = PRQ	9(9).9(4)
72	Unit of Measure	Unit of measure for readings.	MEA04		X(2)
73	Measurement Significance Code	Code used to benchmark, qualify, or further define a measurement value.	MEA07		X(2)

Segment:	ST Transaction Set Header
Position:	010
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the start of a transaction set and to assign a control number
Syntax Notes:	
Semantic Notes:	1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Comments:	,
PA Use:	Required
NJ Use:	Required
DE Use:	Required
MD Use:	Required
Example:	ST*867*00000001

Must Use	Ref. <u>Des.</u> ST01	Data <u>Element</u> 143		Set Identifier Code entifying a Transaction Set	<u>Att</u> M	<u>ributes</u> ID 3/3
Must Use	ST02	329	Identifying contro	Product Transfer and Resale Report Set Control Number I number that must be unique within the transaction set or a transaction set	M function	AN 4/9 hal group assigned

Segment:	BPT Beginning Segment for Product Transfer and Resale
Position:	020
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the beginning of the Product Transfer and Resale Report Transaction Set and
	transmit identifying data
Syntax Notes:	1 If either BPT05 or BPT06 is present, then the other is required.
Semantic Notes:	1 BPT02 identifies the transfer/resale number.
	2 BPT03 identifies the transfer/resale date.
	3 BPT08 identifies the transfer/resale time.
	4 BPT09 is used when it is necessary to reference a Previous Report Number.
Comments:	
PA Use:	Required
NI Uco.	Paguirad

PA Use:	Required
NJ Use:	Required
DE Use:	Required
MD Use:	Required
Examples:	BPT*00*199902010001*19990131*DD
	BPT*00*199902010001*19990131*DD***F
	BPT*01*199902020001*19990131*DD*****1999020100001

Data	Element	Summary
------	---------	---------

	Ref. <u>Des.</u>	Data <u>Element</u>	Name	ient Summary	A ##	ributes
Must Use	<u>BPT01</u>	<u>353</u>	Transaction Set P Code identifying purpo		M	ID 2/2
			00	Original		
				Conveys original	readings for the account b	eing reported.
			01	Cancellation		
				Indicates that the account are to be	readings previously report ignored.	ed for the
Must Use	BPT02	127	Reference Identif Reference information Identification Qualifier		Transaction Set or as specified b	AN 1/30 by the Reference
			-	on identification num number must be uniq	nber assigned by the originue over time.	nator of this
				ies that make the oth	eference to the 810 billing her party whole, it will also	
Must Use	BPT03	373	Date (CCYYMMDD)		Μ	DT 8/8
			Transaction Creation application system		hat the data is processed by	the
Must Use	BPT04	755	Report Type Cod Code indicating the title		O	ID 2/2
			DD	Monthly Usage		
				For monthly mete customers).	ered customers only (not in	terval metered
			KJ	Meter Changeout Usage	when Meter Agent Chang	es – Monthly
					ered customers only (not in	terval metered
	867 1	Monthly Us	age (4010)	26 I	G867MUv6-7.docxx	

			X4	Summary Report (defined for PA and MD)
			X5	For interval metered customers, when only summary data is being sent at the ACCOUNT level. PA Note: Some utilities may not be able to comply with this until later since this was added so close to the 4010 implementation date. If the utilities can not comply day 1, the utility will send the code of "DD" MD Note: Use of the "X4" code on the 867MU indicates the interval detail will be provided on the web. Restricted Report
				For interval metered customers, when only summary data is being sent at the METER level. PA Note: Mandatory implementation date is June 2000.
Conditional	BPT07	306	Action Code Code indicating type of a	o AN 1/2
			F	Final – Indicates Final Usage for specific ESP.
				Condition: Code to indicate this is the final usage data being sent for this customer. Either the customer account is final with the LDC or the customer switched to a new ESP. NJ PSE&G: PSE&G only sends "F" on a customer
				account final. They do not send an "F" on a customer switch.
Conditional	BPT09	PT09 127	Reference Identifie Reference information a Identification Qualifier	cation O AN 1/30 s defined for a particular Transaction Set or as specified by the Reference
			element is required	his is a cancellation of usage, that is $BPT01 = 01$, this and should contain the transaction identification number transaction that is being cancelled.

Segment: Position: Loop: Level: Usage: Max Use: Purpose: Syntax Notes:	DTM Date/Time Reference (649=Document Due Date) 050 Heading Optional 10 To specify pertinent dates and times 1 At least one of DTM02 DTM03 or DTM05 is required. 2 If DTM04 is present, then DTM03 is required.
	3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes: Comments:	
Notes:	Required for Bill Ready Consolidated Billing where the meter reading party sends an 867
110125.	to the non-billing party, who calculates their own portion of the bill and sends the 810 to the billing party. Must be expressed in Eastern Prevailing Time. Not provided on cancel transaction.
PA Use:	Required for Bill Ready, not used in Rate Ready or Dual Billing
	Note: For ESP Consolidated Billing, the document due date will be set according to the specific LDC bill ready implementation.
NJ Use:	Required for Bill Ready, not used in Rate Ready or Dual Billing
DE Use:	Required for Bill Ready, not used in Rate Ready or Dual Billing
MD Use:	Required for Bill Ready, not used in Rate Ready or Dual Billing
Examples:	DTM*649*19990131*2359

Must Use	Ref. <u>Des.</u> DTM01	Data <u>Element</u> 374	<u>Name</u> Date/Time Qualifi Code specifying type of	er date or time, or both date and time	Attributes M ID 3/3
			649	Document Due	
				The date that the non-billing party mu transaction back to the billing party.	ist provide the 810
				If a file is received by the billing party and the billing party cannot process it, the non-billing party (via email, phone means).	, they must notify
Must Use	DTM02	373	Date Date expressed as CCY	YMMDD	X DT 8/8
Must Use	DTM03	337	HHMMSSDD, where H	pur clock time as follows: HHMM, or HHMMSS, I = hours (00-23), M = minutes (00-59), S = intege decimal seconds are expressed as follows: D = ten	er seconds (00-59) and
			HHMM format		

Segment: Position: Loop:	MEA Measurements (NP=Percent Participation) 075
Level:	Heading
Usage:	Optional
Max Use:	20
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	 At least one of MEA03 MEA05 MEA06 or MEA08 is required. If MEA05 is present, then MEA04 is required. If MEA06 is present, then MEA04 is required. If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required. Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
PA Use:	Required if less than 100%
NJ Use:	Not used
DE Use:	Not used
MD Use:	Not Used
Example:	MEA**NP*.66667

Must Use	Ref. <u>Des.</u> MEA02	Data <u>Element</u> 738	<u>Name</u> Measurement Qua Code identifying a specif	Attribu lifier O ID fic product or process characteristic to which a measurement a	1/3
			NP	Percent Participation	
				This code is used to indicate the percentage of the load that is supplied by the ESP. This is the multiplication of two fields that are on the 814 transaction, AMT*7N (Participating Interest) and AMT*QY (Eligible Load).	
Must Use	MEA03	739	Measurement Valu The value of the measure		1/20
				"1" represents 100 percent. Decimal numbers less es from 1 percent to 99 percent.	s than "1"

Segment:	N1 Name (8S=LDC Name)						
Position:	080						
Loop:	N1						
Level:	Heading						
Usage:	Optional						
Max Use:	1						
Purpose:	To identify a party by type of organization, name, and code						
Syntax Notes:	1 At least one of N102 or N103 is required.						
	2 If either N103 or N104 is present, then the other is required.						
Semantic Notes:							
Comments:	 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. N105 and N106 further define the type of entity in N101. 						
PA Use:	Required						
NJ Use:	Required						
DE Use:	Required						
MD Use:	Required						
Example:	N1*8S*LDC COMPANY*1*007909411						

	Ref.	Data	Data Elen	nent Summary		
Must Use	Kel. <u>Des.</u> N101	Data <u>Element</u> 98	<u>Name</u> Entity Identifier Code Code identifying an organizational entity, a physical location individual		Μ	ributes ID 2/3 operty or an
			8S	Consumer Service Provider (CSP)		
				LDC		
Must Use	N102	93	Name Free-form name		X	AN 1/60
			LDC Company Na	me		
Must Use	N103	66	Identification Cod Code designating t Code (67)	le Qualifier he system/method of code structure used	X l for Io	ID 1/2 dentification
			1	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with F Suffix	⁷ our C	Character
Must Use N104		67	Identification Cod Code identifying a	le party or other code	Х	AN 2/20
			LDC D-U-N-S Nur	mber or D-U-N-S + 4 Number		

Segment:	N1 Name (SJ=ESP Name)						
Position:	080						
Loop:	N1						
Level:	Heading						
Usage:	Optional						
Max Use:	1						
Purpose:	To identify a party by type of organization, name, and code						
Syntax Notes:	1 At least one of N102 or N103 is required.						
	2 If either N103 or N104 is present, then the other is required.						
Semantic Notes:							
Comments:	1 This segment, used alone, provides the most efficient method of providing						
	organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.						
	 2 N105 and N106 further define the type of entity in N101. 						
PA Use:							
	Required						
NJ Use:	Required						
DE Use:	Required						
MD Use:	Required						
Example:	N1*SJ*ESP COMPANY*9*007909422ESP						

		-	Data Elem	ent Summary		
	Ref.	Data				
	Des.	<u>Element</u>	<u>Name</u>		Att	<u>ributes</u>
Must Use	N101	98	Entity Identifier C	ode	Μ	ID 2/3
			Code identifying an	organizational entity, a physical location	n, pro	operty or an
			individual			
			SJ	Service Provider		
				ESP		
Must Use	N102	93	Name		Х	AN 1/60
			Free-form name			
			ESP Company Nam	e		
Must Use	N103	66	Identification Code	e Qualifier	Х	ID 1/2
			Code designating th	e system/method of code structure used	for I	dentification
			Code (67)			
			1	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with F	our C	Character
				Suffix		
Must Use	N104	67	Identification Code	e	Х	AN 2/20
			Code identifying a p	party or other code		
			ESP D-U-N-S Num	ber or D-U-N-S + 4 Number		

Segment: Position: Loop: Level: Usage: Max Use: Purpose: Syntax Notes: Semantic Notes: Comments:	 N1 Name (G7=Renewable Energy Provider Name) 080 N1 Heading Optional 1 To identify a party by type of organization, name, and code 1 At least one of N102 or N103 is required. 2 If either N103 or N104 is present, then the other is required. 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. 				
PA Use:	2 N105 and N106 further define the type of entity in N101. Not used				
NJ Use:	Required				
DE Use:	Not used				
MD Use:	Not used				
Example:	N1*G7*RENEWABLE COMPANY*9*007909422GPM				

	Ref. <u>Des.</u>	Data <u>Element</u>	Name	ent Summary	Att	<u>ributes</u>
Must Use	N101	98	Entity Identifier C		M	ID 2/3
			G7	nizational entity, a physical location, property or Entity Providing the Service	an indi	vidual
				Renewable Energy Provider		
Must Use	N102	93	Name Free-form name		Х	AN 1/60
			Renewable Energy	Provider Company Name		
Must Use	N103	66	Identification Code Code designating the system 1	e Qualifier tem/method of code structure used for Identificati D-U-N-S Number, Dun & Bradstreet	X ion Co	ID 1/2 de (67)
			9	D-U-N-S+4, D-U-N-S Number with F Suffix	our C	Character
Must Use	N104	67	Identification Code Code identifying a party	-	X	AN 2/20
			Renewable Energy	Provider D-U-N-S Number or D-U-N-S	+41	Number

32

Segment:	N1 Name (8R=Customer Name)						
Position:	080						
Loop:	N1						
Level:	Heading						
Usage:	Optional						
Max Use:	1						
Purpose:	To identify a party by type of organization, name, and code						
Syntax Notes:	1 At least one of N102 or N103 is required.						
	2 If either N103 or N104 is present, then the other is required.						
Semantic Notes:							
Comments:	 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. N105 and N106 further define the type of entity in N101. 						
Notes:	Please note that while you may place your N1 segments in any order, the REF segments that follow must be contained within the N1*8R loop.						
PA Use:	Required						
NJ Use:	Required						
DE Use:	Required						
MD Use:	Required						
Example:	N1*8R*CUSTOMER NAME						

	Ref.	Data				
	Des.	<u>Element</u>	<u>Name</u>		Att	<u>ributes</u>
Must Use	N101	98	Entity Identifier Co	ode	Μ	ID 2/3
			Code identifying an individual	organizational entity, a physical locatio	n, pro	operty or an
			8R	Consumer Service Provider (CSP) Cus	stome	r
				End Use Customer		
Must Use	N102	93	Name Free-form name		X	AN 1/60
			Customer Name			

Segment:	REF Reference Identification (12=LDC Account Number)					
Position:	120					
Loop:	N1					
Level:	Heading					
Usage:	Optional					
Max Use:	12					
Purpose:	To specify identifying information					
Syntax Notes:	1 At least one of REF02 or REF03 is required.					
	2 If either C04003 or C04004 is present, then the other is required.					
	3 If either C04005 or C04006 is present, then the other is required.					
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.					
Comments:						
PA Use:	Required					
NJ Use:	Required					
DE Use:	Required					
MD Use:	Required					
Example:	REF*12*1239485790					

			Data Elem	ent Summary		
Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	<u>Name</u> Reference Identifi Code qualifying the Ref	e	<u>Attı</u> M	ributes ID 2/3
			12	Billing Account		
				LDC-assigned account number for the customer. Must appear as it does on t excluding punctuation (spaces, dashes leading and trailing zeros must be incl	he cus , etc.)	stomer's bill
Must Use	REF02	127	Reference Identifi Reference information a Identification Qualifier	cation is defined for a particular Transaction Set or as spe	X cified l	AN 1/30 by the Reference

867 Monthly Usage (4010)

Segment:	REF Reference Identification (45=LDC Old Account Number)
Position:	120
Loop:	N1
Level:	Heading
Usage:	Optional
Max Use:	12
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	P
PA Use:	Required if account number has changed within the last 60 days.
NJ Use:	Required if account number has changed within the last 60 days.
DE Use:	Not used
MD Use:	Not Used by BGE, PEPCO and Delmarva.
	PE: Required if the account number has changed in the last 60 days.
Example:	REF*45*939581900

Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	Name Reference Identification Qualifier Code qualifying the Reference Identification		<u>Att</u> M	ributes ID 2/3
			45	Old Account Number		
				Previous LDC-assigned account numb customer.	er for	the end use
Must Use	REF02	127	Reference Identifie Reference information as Identification Qualifier	cation s defined for a particular Transaction Set or as spe	X ecified b	AN 1/30 by the Reference

Segment:	REF Reference Identification (11=ESP Account Number)				
Position:	120				
Loop:	N1				
Level:	Heading				
Usage:	Optional				
Max Use:	12				
Purpose:	To specify identifying information				
Syntax Notes:	1 At least one of REF02 or REF03 is required.				
	2 If either C04003 or C04004 is present, then the other is required.				
	3 If either C04005 or C04006 is present, then the other is required.				
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.				
Comments:					
PA Use:	Required if it was previously provided to the LDC.				
NJ Use:	Same as PA				
DE Use:	Same as PA				
MD Use:	Same as PA				
Example:	REF*11*1394959				

Data Element Summary						
Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	<u>Name</u> Reference Identific Code qualifying the Refe	e e	<u>Attributes</u> M ID 2/3	
			11	Account Number		
				ESP-assigned account number for the	end use customer.	
Must Use	REF02	127	Reference Identifie Reference information as Identification Qualifier	cation s defined for a particular Transaction Set or as spe	X AN 1/30 scified by the Reference	

Segment:	REF Reference Identification (BLT=Billing Type)					
Position:	120					
Loop:	N1					
Level:	Heading					
Usage:	Optional					
Max Use:	12					
Purpose:	To specify identifying information					
Syntax Notes:	1 At least one of REF02 or REF03 is required.					
	2 If either C04003 or C04004 is present, then the other is required.					
	3 If either C04005 or C04006 is present, then the other is required.					
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.					
Comments:						
PA Use:	Required					
NJ Use:	Required					
DE Use:	Required					
MD Use:	Required					

	D ¢		Data Elem	ent Summary	
Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	<u>Name</u> Reference Identific Code qualifying the Refe	e e	X12 Attributes M ID 2/3
			BLT	Billing Type	
				Identifies whether the bill is consolida ESP, or whether each party will render See REF02 for valid values.	-
Must Use	REF02	127	Reference Identifie Reference information as Identification Qualifier	cation s defined for a particular Transaction Set or as spe	X AN 1/30 cified by the Reference
			LDC - The LDC ESP - The ESP t	T, valid values for REF02 are: bills the customer bills the customer arty bills the customer for their portion	
			Note: In New Jerse	y, only LDC and DUAL are valid.	

Example:

REF*BLT*LDC

Segment:	REF Reference Identification (PC=Bill Calculator)					
Position:	120					
Loop:	N1					
Level:	Heading					
Usage:	Optional					
Max Use:	12					
Purpose:	To specify identifying information					
Syntax Notes:	1 At least one of REF02 or REF03 is required.					
	2 If either C04003 or C04004 is present, then the other is required.					
	3 If either C04005 or C04006 is present, then the other is required.					
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.					
Comments:						
PA Use:	Required					
NJ Use:	Required					
DE Use:	Required					
MD Use:	Required					

			Data 1	Element Summary		
Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128		ntification Qualifier ne Reference Identification	<u>X12</u> M	2 <u>Attributes</u> ID 2/3
			PC	Production Code		
				Identifies the party that is to calculate bill.	the cl	harges on the
Must Use	REF02	127	Reference Ide Reference informa Identification Qua	ation as defined for a particular Transaction Set or as spe	X cified l	AN 1/30 by the Reference
			LDC - The	is PC, valid values for REF02 are: LDC calculates the charges on the bill (Rate ch party calculates its portion of the bill (Dua	•	• •

	IF	THE	N	
Bills the	Calcu	ılates	Billing Party	Calc. Party
Customer	LDC Portion	ESP Portion	REF*BLT	REF*PC
LDC	LDC	LDC	LDC	LDC
LDC	LDC	ESP	LDC	DUAL
ESP	LDC	ESP	ESP	DUAL
DUAL	LDC	ESP	DUAL	DUAL

Be careful to use the UIG Standard Code Values LDC and ESP rather than the Pennsylvania versions of those codes.

Example:

REF*PC*LDC

Segment:	PTD Product Transfer and Resale Detail (BB=Billed Summary)						
Position:	010						
Loop:	PTD						
Level:	Detail						
Usage:	Mandatory						
Max Use:	1						
Purpose:	To indicate the start of detail information relating to the transfer/resale of a product and						
	provide identifying data						
Syntax Notes:	1 If either PTD02 or PTD03 is present, then the other is required.						
	2 If either PTD04 or PTD05 is present, then the other is required.						
Semantic Notes:							
Comments:							
Notes:	PTD Loops may be sent in any order.						
PA Use:	One Monthly Billed Summary PTD loop is required for every account.						
NJ Use:	Required						
DE Use:	Required						
MD Use:	Required						
Example:	PTD*BB						

			Data Elem	ent Summary		
Must Use	Ref. <u>Des.</u> PTD01	Data <u>Element</u> 521	<u>Name</u> Product Transfer Code identifying the typ		<u>Attr</u> M	ributes ID 2/2
			BB	Monthly Billed Summary		
				This information is obtained from the reflect the billing data for this account measure level.		

Note:

Refer to the "PTD Loops Definition" section earlier in this document for an explanation of this specific PTD Loop.

Segment:	DTM Date/Time Reference (150=Service Period Start)
Position:	020
Loop:	PTD
Level:	Detail
Usage:	Optional
Max Use:	10
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.
	2 If DTM04 is present, then DTM03 is required.
	3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:	
PA Use:	Required
NJ Use:	Required
DE Use:	Required
MD Use:	Required
Example:	DTM*150*19990101

Must Use	Ref. <u>Des.</u> DTM01	Data <u>Element</u> 374	<u>Name</u> Date/Time Q	ualifier type of date or time, or both date and time	<u>Att</u> M	ributes ID 3/3
Must Use	DTM02	373	150 Date Date expressed as	Service Period Start	X	DT 8/8

Segment:	DTM Date/Time Reference (151=Service Period End)
Position:	020
Loop:	PTD
Level:	Detail
Usage:	Optional
Max Use:	10
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.
	2 If DTM04 is present, then DTM03 is required.
	3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:	
PA Use:	Required
NJ Use:	Required
DE Use:	Required
MD Use:	Required
Example:	DTM*151*19990131

Data Element Summary

Must Use	Ref. <u>Des.</u> DTM01	Data <u>Element</u> 374	<u>Name</u> Date/Time (Qualifier type of date or time, or both date and time	<u>Att</u> M	<u>ributes</u> ID 3/3
Must Use	DTM02	373	151 Date Date expressed a	Service Period End	X	DT 8/8

Segment:	QTY Quantity (Billed kwh)
Position:	110
Loop:	QTY
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify quantity information
Syntax Notes:	1 At least one of QTY02 or QTY04 is required.
	2 Only one of QTY02 or QTY04 may be present.
Semantic Notes:	1 QTY04 is used when the quantity is non-numeric.
Comments:	
Notes:	Billed KWH
PA Use:	Required
NJ Use:	Required
DE Use:	Required
MD Use:	Required
Example:	QTY*D1*22348*KH

			Data Eleme	ent Summary		
Must Use	Ref. <u>Des.</u> QTY01	Data <u>Element</u> 673	Name Quantity Qualifier Code specifying the type D1		<u>Attı</u> M	<u>ributes</u> ID 2/2
			DI	Used when Quantity in QTY02 is a "B	illed"	' quantity.
Must Use	QTY02	380	Quantity Numeric value of quantity		X	R 1/15
Must Use	QTY03	355	Unit or Basis for M Code specifying the units has been taken	Leasurement Code in which a value is being expressed, or manner in	M which	ID 2/2 a measurement
			KH	Kilowatt Hour		
				Billed Kilowatt Hours as shown on the May or may not be the same as measur hours.		

Segment:	QTY Quantity (Billed Demand)
Position:	110
Loop:	QTY
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify quantity information
Syntax Notes:	1 At least one of QTY02 or QTY04 is required.
	2 Only one of QTY02 or QTY04 may be present.
Semantic Notes:	1 QTY04 is used when the quantity is non-numeric.
Comments:	
Notes:	Billed Demand
PA Use:	Required if account measures Demand (KW). This must be sent even if Billed (derived) demand is equal to measured demand.
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Example:	QTY*D1*14*K1

			Data Eleme	ent Summary		
Must Use	Ref. <u>Des.</u> QTY01	Data <u>Element</u> 673	<u>Name</u> Quantity Qualifier Code specifying the type	of quantity	<u>Attı</u> M	ributes ID 2/2
			D1	Billed		
				Used when Quantity in QTY02 is a "B	illed'	' quantity.
Must Use	QTY02	380	Quantity Numeric value of quantity	y	X	R 1/15
Must Use	QTY03	355	Unit or Basis for M Code specifying the units has been taken	leasurement Code in which a value is being expressed, or manner ir	M n which	ID 2/2 a measurement
			K1	Kilowatt Demand		

Segment:	QTY Quantity (Measured Demand)
Position:	110
Loop:	QTY
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify quantity information
Syntax Notes:	1 At least one of QTY02 or QTY04 is required.
	2 Only one of QTY02 or QTY04 may be present.
Semantic Notes:	1 QTY04 is used when the quantity is non-numeric.
Comments:	
Notes:	Measured Demand
PA Use:	Required if account measures Demand (KW)
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
	Note: BGE does not store Measured Demand. They will send Billed Demand in this
	field.
Example:	QTY*QD*14*K1

			Data Eltin	chi Summary		
	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>		Att	<u>ributes</u>
Must Use	QTY01	673	Quantity Qualifier	•	Μ	ID 2/2
	-		Code specifying the type	e of quantity		
			KA	Estimated Quantity Delivered		
				Used when the quantity delivered is ar quantity.	n estir	nated
			QD	Actual Quantity Delivered		
				Used when the quantity delivered is an	n actu	al quantity.
Must Use	QTY02	380	Quantity Numeric value of quantit	ty	X	R 1/15
Must Use	QTY03	355	Unit or Basis for M	leasurement Code	М	ID 2/2
			Code specifying the units has been taken	s in which a value is being expressed, or manner in	n whicl	h a measurement
			K1	Kilowatt Demand		

Segment:	\mathbf{PTD} Product Transfer and Resale Detail (SU=Metered Services Summary)
Position:	010
Loop:	PTD
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the start of detail information relating to the transfer/resale of a product and
Syntax Notes:	provide identifying dataIf either PTD02 or PTD03 is present, then the other is required.
·	2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:	
Comments:	
Notes:	PTD Loops may be sent in any order.
PA Use:	Required if this is a metered account that measures kWh or KVARH and the LDC reads
	the meter.
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA

Must Use	Ref. <u>Des.</u> PTD01	Data <u>Element</u> 521	<u>Name</u> Product Transfer Code identifying the typ		<u>Attributes</u> M ID 2/2
			SU	Summary	
				A summary loop will be provided for consumption for every unit of measur the account.	• •

Note:

Refer to the "PTD Loops Definition" section earlier in this document for an explanation of this specific PTD Loop.

45

PTD*SU

Example:

Segment:	DTM Date/Time Reference (150=Service Period Start)
Position:	020
Loop:	PTD
Level:	Detail
Usage:	Optional
Max Use:	10
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.
-	2 If DTM04 is present, then DTM03 is required.
	3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:	
Comments:	
DA LIGO.	Dequired if account has material comiless

commentes	
PA Use:	Required if account has metered services.
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Example:	DTM*150*19990101

			Data	Encine in Summary		
	Ref.	Data				
	Des.	<u>Element</u>	<u>Name</u>		Att	<u>ributes</u>
Must Use	DTM01	374	Date/Time Q	ualifier	Μ	ID 3/3
			Code specifying	type of date or time, or both date and time		
			150	Service Period Start		
Must Use	DTM02	373	Date Date expressed a	s CCYYMMDD	X	DT 8/8

Segment:	DTM Date/Time Reference (151=Service Period End)
Position:	020
Loop:	PTD
Level:	Detail
Usage:	Optional
Max Use:	10
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.
-	2 If DTM04 is present, then DTM03 is required.
	3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:	
Comments:	
D 1 T	

comments.	
PA Use:	Required if account has metered services.
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Example:	DTM*151*19990131

			Data	Element Summary		
	Ref.	Data				
	Des.	Element	<u>Name</u>		Att	<u>ributes</u>
Must Use	DTM01	374	Date/Time Q	Qualifier	Μ	ID 3/3
			Code specifying	type of date or time, or both date and time		
			151	Service Period End		
Must Use	DTM02	373	Date Date expressed a	as CCYYMMDD	X	DT 8/8

Segment:	QTY Quantity
Position:	110
Loop:	QTY
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify quantity information
Syntax Notes:	1 At least one of QTY02 or QTY04 is required.
	2 Only one of QTY02 or QTY04 may be present.
Semantic Notes:	1 QTY04 is used when the quantity is non-numeric.
Comments:	
Notes:	There will be one QTY loop for each of the QTY03 Units of Measurement listed below
	that are measured on this account.
PA Use:	Required if account has metered services
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Example:	QTY*QD*22348*KH

Data	Element Summary
------	------------------------

		_	Data Eleni	int Summary
	Ref.	Data		
	Des.	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	QTY01	673	Quantity Qualifier	M ID 2/2
			Code specifying the type	of quantity
			KA	Estimated Quantity Delivered
				Used when the quantity delivered is an estimated quantity.
			QD	Actual Quantity Delivered
			-	Used when the quantity delivered is an actual quantity.
			87	Actual Quantity Received (Net Metering)
				Used when the net generation quantity received is
				actual.
			9H	Estimated Quantity Received (Net Metering)
				Used when the net generation quantity received is
				estimated.
Must Use	QTY02	380	Quantity Numeric value of quantity	x R 1/15
Must Use	QTY03	355	Unit or Basis for M	leasurement Code M ID 2/2
	C III		Code specifying the units has been taken	in which a value is being expressed, or manner in which a measurement
			K3	Kilovolt Amperes Reactive Hour (kVARH)
				Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters
			KH	Kilowatt Hour

Segment:	PTD Product Transfer and Resale Detail (PM=Metered Services Detail)
Position:	010
Loop:	PTD
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the start of detail information relating to the transfer/resale of a product and
	provide identifying data
Syntax Notes:	1 If either PTD02 or PTD03 is present, then the other is required.
	2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:	
Comments:	
Notes:	PTD Loops may be sent in any order.
	There will be a separate PTD loop for each unit of measurement for each meter on the
	account.
	Note: If the BPT04="X4" indicating this document is being sent for an interval account
	at the account level, this loop may be sent for each unit of measure, but not each meter.
	When the BPT04="X4", the data may be summarized for the account.
PA Use:	Required if this is a metered account.
	Note: The sending of the PM loop s is optional when this is a cancel transaction
	(BPT01=01).
NJ Use:	Required if this is a metered account.
DE Use:	Same as PA
MD Use:	Same as PA
Example:	PTD*PM

Must Use	Ref. <u>Des.</u> PTD01	Data <u>Element</u> 521		nsfer Type Code the type of product transfer	<u>Att</u> M	ributes ID 2/2
			PM	Physical Meter Information		

Note:

Refer to the "PTD Loops Definition" section earlier in this document for an explanation of this specific PTD Loop.

Segment:	DTM Date/Time Reference (150=Service Period Start)
Position:	020
Loop:	PTD
Level:	Detail
Usage:	Optional
Max Use:	10
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.
	2 If DTM04 is present, then DTM03 is required.
	3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:	
Comments:	
Notes.	This date reflects the beginning of the date range for this meter for this hilling period

Notes:	This date reflects the beginning of the date range for this meter for this billing period.		
	This specific PTD loop is required if there are metered services on the account.		
PA Use:	Required, unless a "DTM*514" is substituted for this code.		
NJ Use:	Same as PA		
DE Use:	Same as PA		
MD Use:	Same as PA		
Example:	DTM*150*19990101		

Must Use	Ref. <u>Des.</u> DTM01	Data <u>Element</u> 374	Name Date/Time Qualifier Code specifying type of date or time, or both date and time		<u>Att</u> M	<u>ributes</u> ID 3/3
			150	Service Period Start		
Must Use	DTM02	373	Date Date expressed as	CCYYMMDD	X	DT 8/8

Segment:	DTM Date/Time Reference (151=Service Period End)
Position:	020
Loop:	PTD
Level:	Detail
Usage:	Optional
Max Use:	10
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.
	2 If DTM04 is present, then DTM03 is required.
	3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:	
Comments:	
Notes:	This date reflects the end of the date range for this meter for this billing period.

	This specific PTD loop is required if there are metered services on the account.
PA Use:	Required, unless a "DTM*514" is substituted for this code.
NJ Use:	Same as PA.
DE Use:	Same as PA
MD Use:	Same as PA
Example:	DTM*151*19990131

Must Use	Ref. <u>Des.</u> DTM01	Data <u>Element</u> 374	<u>Name</u> Date/Time Q	ualifier type of date or time, or both date and time	Att M	<u>ributes</u> ID 3/3
Must Use	DTM02	373	151 Date Date expressed as	Service Period End	X	DT 8/8

Segment:	DTM Date/Time Reference (514=Meter Exchange Date)
Position:	020
Loop:	PTD
Level:	Detail
Usage:	Optional
Max Use:	10
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.
	2 If DTM04 is present, then DTM03 is required.
	3 If either DTM05 or DTM06 is present, then the other is required.
C	

Semantic Notes:

Comments:	
Notes:	Used in conjunction with either the Service Period Start Date or the Service Period End Date to indicate when a meter has been replaced. Separate PTD loops must be created for each period and meter.
PA Use:	Required when a meter is changed and the meter agent does not change.
NJ Use:	Same as PA.
DE Use:	Same as PA
MD Use:	Same as PA
Example:	Date Range in the first PTD is shown as: DTM*150*19990201 DTM*514*19990214 Date Range in the second PTD is shown as:
	Date Range in the second PTD is shown as: DTM*514*19990214 DTM*151*19990228

Data Element Summary

Must Use	Ref. <u>Des.</u> DTM01	Data <u>Element</u> 374	<u>Name</u> Date/Time Qualifie	Pr late or time, or both date and time	<u>Att</u> M	<u>ributes</u> ID 3/3
			514	Transferred		
				Exchanged meter read date		
Must Use	DTM02	373	Date Date expressed as CCYY	MMDD	Х	DT 8/8

Segment:	<u>REF</u> <u>Reference</u> <u>Identification (6W=Channel Number)</u>
Position:	030
Loop:	PTD
Level:	Detail
Usage:	Optional
Max Use:	20
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	

PA Use:	Used by FirstEnergy: Channel 1 = Delivered kWh and Channel 2 = Received kWh
NJ Use:	N/A
DE Use:	N/A
MD Use:	N/A
Example:	REF*6W*1

Data Element Summary						
Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	<u>Name</u> Reference Identification Ou		<u>tributes</u> I ID 2/3	
Must Ose	KEFUI	120	Code qualifying the Reference 6W Sequence	ce Identification ce Number	I ID 2/3	
Must Use	REF02	127	Reference Identification	l Number X fined for a particular Transaction Se lentification Qualifier	AN 1/30 t or as	

Segment:	REF Reference Identification (MG=Meter Number)
Position:	030
Loop:	PTD
Level:	Detail
Usage:	Optional
Max Use:	20
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
PA Use:	Required if this is a metered account and the meter is on the account at the end of the
	period. For some utilities, they may not be able to provide the actual meter number for a
	meter that has been changed out during the month. In that case, the REF*MG will not be
	sent. Everyone is working toward being able to provide the old meter number.
	Note: If the BPT04="X4" indicating this document is being sent for an interval account
	at the account level, this segment will be not be used.
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Example:	REF*MG*2222277S

Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	<u>Name</u> Reference Ide	ntification Qualifier ne Reference Identification	<u>Att</u> M	<u>ributes</u> ID 2/3
			MG	Meter Number		
Must Use	REF02	127	Reference Ide Reference informa Identification Qua	ation as defined for a particular Transaction Set or as	X specified 1	AN 1/30 by the Reference

Segment:	REF Reference Identification (NH=LDC Rate Class)
Position:	030
Loop:	PTD
Level:	Detail
Usage:	Optional
Max Use:	20
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
PA Use:	Optional
NJ Use:	Optional
DE Use:	Optional
MD Use:	Optional
Example:	REF*NH*GS1

Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128		entification Qualifier he Reference Identification	<u>Att</u> M	<u>ributes</u> ID 2/3
Must Use	REF02	127	NH Reference Id Reference inform Identification Qu	ation as defined for a particular Transaction Set or as s	X pecified 1	AN 1/30 by the Reference

Segment:	REF Reference Identification (PR=LDC Rate Subclass)
Position:	030
Loop:	PTD
Level:	Detail
Usage:	Optional
Max Use:	20
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	This iteration of the REF segment is used for meter level information.
PA Use:	Conditional: If maintained by utility, must be sent for each meter loop that is used for billing purposes. Note: If the BPT04="X4" indicating this document is being sent for an interval account at the account level, this segment will be not be used.
NJ Use:	Optional
DE Use:	Optional
MD Use:	Optional
Example:	REF*PR*123

			Data Lien	ient Summary		
Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	<u>Name</u> Reference Identifi Code qualifying the Ref	č	<u>X12</u> M	2 Attributes ID 2/3
			PR	Price Quote Number		
				LDC Rate Subclass – Used to provide classification of a rate.	furth	er
Must Use	REF02	127	Reference Identifi	cation	Х	AN 1/30
			Reference information a Identification Qualifier	s defined for a particular Transaction Set or as spe	cified	by the Reference

Segment:	REF Reference Identification (JH=Meter Role)
Position:	030
Loop:	PTD
Level:	Detail
Usage:	Optional
Max Use:	20
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
PA Use:	Required if consumption is provided at a meter level
	Note: If the BPT04="X4" indicating this document is being sent for an interval account
	at the account level, this segment will be not be used.
NJ Use:	Required if consumption is provided at a meter level
DE Use:	Required if consumption is provided at a meter level
MD Use:	Required if consumption is provided at a meter level
Example:	REF*JH*A

Must Use	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	<u>Name</u> Reference Id	the Reference Identification	<u>Att</u> M	ributes ID 2/3	
			JH	Meter Role			
Must Use	REF02	127	27 Reference Identification X Reference information as defined for a particular Transaction Set or as specified b Identification Qualifier				
			 When REF01 is JH, valid values for REF02 are: S = Subtractive - this consumption needs to be subtracted summarized total. A = Additive - this consumption contributed to the summ (do nothing). I = Ignore - this consumption did not contribute to the su total (do nothing). 				

Segment:	REF Reference Identification (IX=Number of Dials/Digits)
Position:	030
Loop:	PTD
Level:	Detail
Usage:	Optional
Max Use:	20
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
PA Use:	Required for meters with dials
	Note: If the BPT04="X4" indicating this document is being sent for an interval account at
	the account level, this segment will be not be used.
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Examples:	REF*IX*6.0
	REF*IX*5.1
	REF*IX*4.2

	Ref. Des.	Data Element	Name	ement Summary	V 1	2 Attributes
Must Use	<u>Des.</u> REF01	<u>128</u>	Reference Ident	ification Qualifier Reference Identification	M	ID 2/3
			IX	Rate Card Number Number of Dials on the Meter display of dials to the left of the decimal, a de the number of dials to the right of the	ecimal	point, and
Must Use	REF02	127	Reference Ident Reference information Identification Qualifi	ification n as defined for a particular Transaction Set or as sp	Х	AN 1/30
Optional	REF03	352		on to clarify the related data elements and their cont e Meter Type (REF*MT) on 814 Enrollme		AN 1/80 valid codes.

# Dials	Positions to	Positions to	X12 Example
	left of decimal	right of decimal	
6	6	0	REF*IX*6.0
6	5	1	REF*IX*5.1
6	4	2	REF*IX*4.2

Segment:	QTY Quantity
Position:	110
Loop:	QTY
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify quantity information
Syntax Notes:	1 At least one of QTY02 or QTY04 is required.
	2 Only one of QTY02 or QTY04 may be present.
Semantic Notes:	1 QTY04 is used when the quantity is non-numeric.
Comments:	
Notes:	There will be one QTY loop for each of the QTY03 Units of Measurement listed below
	for each meter that is measured on this account.
	If there are 2 meters on the account, and one measures KWH and KW, and the other measures just KWH, there will be 3 PTD01=PM loops.
	If a meter measures total usage, as well as on-peak and off-peak, there will be three QTY loops sent within one PTD01=PM loop. The MEA segment that follows each QTY will specify which time of use the QTY applies to.
PA Use:	Required if there are metered services on the account.
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Example:	QTY*QD*22348*KH
	QTY*QD*14*K1 (If meter measures both, you will have two QTY loops)

Data Element Summary					
Must Use	Ref. <u>Des.</u> QTY01	Data <u>Element</u> 673	<u>Name</u> Quantity Qualifier Code specifying the type	of quantity	
			KA	Estimated Quantity Delivered	
			NA .	Used when the quantity delivered is an estimated quantity.	
			QD	Actual Quantity Delivered	
			-	Used when the quantity delivered is an actual quantity.	
			87	Actual Quantity Received (Net Metering)	
				Used when the net generation quantity received is actual.	
			9H	Estimated Quantity Received (Net Metering)	
				Used when the net generation quantity received is estimated.	
Must Use	QTY02	380	Quantity Numeric value of quantity	y X R 1/15	
Must Use	QTY03	355	Unit or Basis for M Code specifying the units has been taken	Leasurement Code M ID 2/2 in which a value is being expressed, or manner in which a measurement	
			K1	Kilowatt Demand (kW)	
			K2	Represents potential power load measured at predetermined intervals Kilovolt Amperes Reactive Demand (kVAR)	
			112	-	
				Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand	
				usage meets of execcus a defined parameter	
				of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter	

K3	Kilovolt Amperes Reactive Hour (kVARH)
	Represents actual electricity equivalent to kilowatt
	hours; billable when usage meets or exceeds defined
	parameters
K4	Kilovolt Amperes (KVA)
KH	Kilowatt Hour (kWh)

Segment:	MEA Measurements
Position:	160
Loop:	QTY
Level:	Detail
Usage:	Optional
Max Use:	40
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances,
	and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
	2 If MEA05 is present, then MEA04 is required.
	3 If MEA06 is present, then MEA04 is required.
	4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
	5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the
	negative (-) value and MEA06 as the positive (+) value.
Notes:	The MEA segment is sent for each QTY loop. The MEA will indicate the "time of use"
	that applies to the QTY. If meter readings are included in the MEA, they will indicate the "time of use" that the meter readings apply to.
PA Use:	Required (optional on a cancellation)
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Examples:	MEA*AA*PRQ*22348*KH***51
	MEA*AA*PRQ*14*K1***51 (If meter measures multiple things, you need to send multiple QTY loops, one for each unit of measurement).

Data Element Summary							
	Ref. <u>Des.</u>	Data <u>Element</u>	Name		Attril	butes	
Must Use	MEA01	737	Measurement Re	ference ID Code	0 1	ID 2/2	
			Code identifying the b	road category to which a measurement applies			
			AA	Meter reading-beginning actual/ending	g actual		
			AE	Meter reading-beginning actual/ending	g estima	ated	
			AF	Actual Total			
			BO	Meter Reading as Billed			
				Used when billing charges are based o agreements or pre-established usage ar usage			
			EA	Meter reading-beginning estimated/end	ding act	tual	
			EE	Meter reading-beginning estimated/end	ding est	timated	
Must Use	MEA02	738	Measurement Qu Code identifying a spe	nalifier cific product or process characteristic to which a me		ID 1/3 nt applies	
			PRQ	Consumption			
Must Use	MEA03	739	Measurement Value X R The value of the measurement			R 1/20	
			Represents quantity of consumption delivered for service period. Contains t difference in the meter readings (or as measured by the meter) multiplied by various factors, excluding Power Factor.				

Must Use	MEA04	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in whas been taken		M in whic	ID 2/2 h a measurement
			K1	Kilowatt Demand		
			720	Represents potential power load meas predetermined intervals	sured a	ıt
			K2	Kilovolt Amperes Reactive Demand	C	
			K3	Reactive power that must be supplied of customer's equipment; billable whe usage meets or exceeds a defined para Kilovolt Amperes Reactive Hour	en kilo	watt demand
				Represents actual electricity equivaler hours; billable when usage meets or e parameters		
			K4	Kilovolt Amperes (KVA)		
			K5	Kilovolt Amperes Reactive		
			KH	Kilowatt Hour		
Conditional	MEA05	740	Range Minimum The value specifying th	e minimum of the measurement range	X	R 1/20
			Beginning reading			
	MEA06		and ending reads for and ending reads a reads, you only pro Condition for MI Condition for NJ this is an actual rea consumption will b	•	provide provide he LD on the l nding	de beginning e beg/ending PC bill. LDC bill, and reads, only
Must Use		741	Range Maximum The value specifying th	e maximum of the measurement range	X	R 1/20
				single reading (e.g., demand).		
			PA: Required for I for on and off peak and consumption. provide consumpti	Residential. If the meter provides beginn c usage, then you must provide beginning If the meter does not provide beg/ending	g and o	ending reads
Must Use	MEA07	935	Measurement Sig	nificance Code	0	ID 2/2
				hmark, qualify or further define a measu	remen	t value
			41 42	Off Peak On Peak		
			42	Intermediate		
			51	Total		
				Totalizer		
			66	Shoulder		

Segment:	MEA Measurements (MU=Meter Multiplier)
Position:	160
Loop:	QTY
Level:	Detail
Usage:	Optional
Max Use:	40
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
·	2 If MEA05 is present, then MEA04 is required.
	3 If MEA06 is present, then MEA04 is required.
	4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
	5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or
	any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
PA Use:	Required for a meter that has a meter multiplier other than 1.
	Note: If the BPT04="X4" indicating this document is being sent for an interval account
	at the account level, this segment will be not be used.
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Example:	MEA**MU*2

	Ref.	Data			
	Des.	<u>Element</u>	Name	Att	ributes
Must Use	MEA02	738	Measurement Qualifier	0	ID 1/3
			Code identifying a specific product or process characteristic to which a	measurer	nent applies
			MU Multiplier		
Must Use	MEA03	739	Measurement Value The value of the measurement	X	R 1/20
			Represents the meter constant when MEA02 equals "MU equals 1, do not send this MEA segment.	". When	n the multiplier

Segment:	MEA Measurements (ZA=Power Factor)
Position:	160
Loop:	QTY
Level:	Detail
Usage:	Optional
Max Use:	40
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances,
	and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
	2 If MEA05 is present, then MEA04 is required.
	3 If MEA06 is present, then MEA04 is required.
	4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
	5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or
	any measurement where a positive (+) value cannot be assumed, use MEA05 as the
	negative (-) value and MEA06 as the positive (+) value.
PA Use:	Required if it is available to the meter agent and it is used in the calculation of the
	customer's bill. This is only relevant and should only ever be sent with Demand (K1). If
	not present with a demand quantity, it should be assumed to be 1.
	Note: If the BPT04="X4" indicating this document is being sent for an interval account
NIT T I	at the account level, this segment will be not be used.
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Example:	MEA**ZA*.95

			Data Elem	cht Summary		
Must Use	Ref. <u>Des.</u> MEA02	Data <u>Element</u> 738	<u>Name</u> Measurement Qua Code identifying a speci	alifier fic product or process characteristic to which a mo	0	ributes ID 1/3 nent applies
			ZA	Power Factor		
				Relationship between watts and volt - necessary to supply electric load	ampe	res
Must Use	MEA03	739	Measurement Value The value of the measure		Х	R 1/20
			-	rer Factor when MEA02 equals "ZA". V the value is 1, do not send this MEA se		

Segment:	MEA Measurements (CO=Transformer Loss Multiplier)
Position:	160
Loop:	QTY
Level:	Detail
Usage:	Optional
Max Use:	40
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances,
	and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
	2 If MEA05 is present, then MEA04 is required.
	3 If MEA06 is present, then MEA04 is required.
	4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
	5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or
	any measurement where a positive (+) value cannot be assumed, use MEA05 as the
	negative (-) value and MEA06 as the positive (+) value.
PA Use:	Required when Transformer Loss is not calculated by the meter.
	Note: If the BPT04="X4" indicating this document is being sent for an interval account
	at the account level, this segment will be not be used.
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Example:	MEA**CO*1.02

	Ref.	Data				
	Des.	<u>Element</u>	<u>Name</u>		<u>Attributes</u>	
Must Use	MEA02	738	Measurement Qua	lifier	O ID 1/3	
			Code identifying a specific product or process characteristic to which a measurement			
			CO	Transformer Loss Multiplier		
				When a customer owns a transformer transformer loss is not measured by the		
Must Use	MEA03	739	Measurement Valu The value of the measure		X R 1/20	
			Represents the Tran	sformer Loss Multiplier when MEA02	equals "CO".	

Segment: PTD Product Transfer and Resale Detail (BC=Unmetered Services Summa) Position: 010 Loop: PTD Level: Detail	
-	
Level: Detail	
Usage: Mandatory	
Max Use: 1	
Purpose: To indicate the start of detail information relating to the transfer/resale of a product at	ıd
provide identifying data	
Syntax Notes: 1 If either PTD02 or PTD03 is present, then the other is required.	
2 If either PTD04 or PTD05 is present, then the other is required.	
Semantic Notes:	
Comments:	
Notes: PTD Loops may be sent in any order.	
PA Use: Required if there are unmetered services on this account.	
NJ Use: Same as PA	
DE Use: Same as PA	
MD Use: Same as PA	
Example: PTD*BC	

Data Element	Summary
--------------	---------

	Ref. <u>Des.</u>	Data Element	Name		Att	ributes
Must Use	PTD01	521		sfer Type Code he type of product transfer	Μ	ID 2/2
			BC	Unmetered Services Summary		

Note:

Refer to the "PTD Loops Definition" section earlier in this document for an explanation of this specific PTD Loop.

Segment:	DTM Date/Time Reference (150=Service Period Start)						
Position:	020						
Loop:	PTD						
Level:	Detail						
Usage:	Optional						
Max Use:	10						
Purpose:	To specify pertinent dates and times						
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.						
	2 If DTM04 is present, then DTM03 is required.						
	3 If either DTM05 or DTM06 is present, then the other is required.						
Semantic Notes:							
Comments:							
PA Use:	Required if there are unmetered services on this account						
NJ Use:	Same as PA						

NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Example:	DTM*150*19990101

	Ref.	Data Element		Liement Summury	A ++-	ributos
Must Use	<u>Des.</u> DTM01	<u>Element</u> 374	<u>Name</u> Date/Time Q		<u>Au</u> M	<u>ributes</u> ID 3/3
			Code specifying	type of date or time, or both date and time		
			150	Service Period Start		
Must Use	DTM02	373	Date Date expressed a	as CCYYMMDD	X	DT 8/8

Segment:	DTM Date/Time Reference (151=Service Period End)
Position:	020
Loop:	PTD
Level:	Detail
Usage:	Optional
Max Use:	10
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.
	2 If DTM04 is present, then DTM03 is required.
	3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:	
Comments:	
PA Use:	Required if there are unmetered services on this account
NJ Use:	Same as PA

NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Example:	DTM*151*19990131

	Ref.	Data	Dutu	Lichent Summary		
	Des.	Element	<u>Name</u>		Att	ributes
Must Use	DTM01	374	Date/Time Q	Qualifier	Μ	ID 3/3
			Code specifying	type of date or time, or both date and time		
			151	Service Period End		
Must Use	DTM02	373	Date Date expressed a	IS CCYYMMDD	X	DT 8/8

Segment:	QTY Quantity
Position:	110
Loop:	QTY
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify quantity information
Syntax Notes:	1 At least one of QTY02 or QTY04 is required.
	2 Only one of QTY02 or QTY04 may be present.
Semantic Notes:	1 QTY04 is used when the quantity is non-numeric.
Comments:	
Notes:	This loop is required when there are unmetered services on the account. This will contain
	the total quantity for the unmetered services.
PA Use:	Required is there are unmetered services on the account
NJ Use:	Same as PA
DE Use:	Same as PA
MD Use:	Same as PA
Example:	QTY*QD*500*KH

			Data Elemo	ent Summary		
	Ref.	Data				
	Des.	<u>Element</u>	<u>Name</u>			<u>ributes</u>
Must Use	QTY01	673	Quantity Qualifier		Μ	ID 2/2
			Code specifying the type	of quantity		
			QD	Actual Quantity Delivered		
				Used when the quantity delivered is an	ı actu	al quantity.
				All States: Whether unmetered service	es are	estimated,
				calculated, or actual, they will be code	d as a	ictual.
Must Use	QTY02	380	Quantity Numeric value of quantit	у	X	R 1/15
Must Use	QTY03	355	Unit or Basis for M Code specifying the units has been taken	Ieasurement Code s in which a value is being expressed, or manner in	M n whicł	ID 2/2 h a measurement
			99	Watts		
			K1	Kilowatt Demand (kW)		
			KH	Kilowatt Hour		

Segment:	\mathbf{PTD} Product Transfer and Resale Detail (BJ=Generation Transferred In/Out)
Position:	010
Loop:	PTD
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes:	1 If either PTD02 or PTD03 is present, then the other is required.
	2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:	
Comments:	
Notes:	PTD Loops may be sent in any order. There will be one PTD loop to identify the generation transferred in/out for the period.
PA Use:	Not Used
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Required if the account has net metering or is a part of an Aggregated Net Energy
	Metering (ANEM) Family.
Example:	PTD*BJ

			Data Elem	ent Summary
Must Use	Ref. <u>Des.</u> PTD01	Data <u>Element</u> 521	<u>Name</u> Product Transfer Code identifying the typ	
			BJ	Relocation
				Generation transferred:
				• From this account to another account
				• From another account to this account
				• From this account to this account
				Constantion bankad:

Generation banked:

- Starting Bank
- Ending Bank

Segment:	DTM Date/Time Reference (150=Service Period Start)
Position:	020
Loop:	PTD
Level:	Detail
Usage:	Optional
Max Use:	10
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.
	2 If DTM04 is present, then DTM03 is required.
	3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:	
Comments:	
Notes:	This specific PTD loop is required if the account has net metering or is a part of an
	Aggregated Net Energy Metering (ANEM) Family.
	This date reflects the beginning of the date range for this meter for this billing period.
PA Use:	Not Used
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Required
Example:	DTM*150*20160615

Must Use	Ref. <u>Des.</u> DTM01	Data <u>Element</u> 374	Name Date/Time Qualifier Code specifying type of date or time, or both date and time		Att M	<u>ributes</u> ID 3/3
Must Use	DTM02	373	150 Date Date expressed as	Service Period Start	X	DT 8/8

Segment:	DTM Date/Time Reference (151=Service Period End)
Position:	020
Loop:	PTD
Level:	Detail
Usage:	Optional
Max Use:	10
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.
	2 If DTM04 is present, then DTM03 is required.
	3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:	
Comments:	
Notes:	This specific PTD loop is required if the account has net metering or is a part of an Aggregated Net Energy Metering (ANEM) Family.
	This date reflects the end of the date range for this meter for this billing period.
PA Use:	Not Used
NJ Use:	Not Used
DE Use:	Not Used

72

Must Use	Ref. <u>Des.</u> DTM01	Data <u>Element</u> 374	<u>Name</u> Date/Time Q	Pualifier type of date or time, or both date and time	<u>Att</u> M	<u>ributes</u> ID 3/3
Must Use	DTM02	373	151 Date Date expressed a	Service Period End s CCYYMMDD	X	DT 8/8

MD Use:

Example:

Required

DTM*151*20160715

Segment: Position: Loop: Level: Usage: Max Use: Purpose: Syntax Notes: Semantic Notes: Comments:	<pre>OTTY Quantity 110 QTY Detail Optional 1 To specify quantity information 1 At least one of QTY02 or QTY04 is required. 2 Only one of QTY02 or QTY04 may be present. 1 QTY04 is used when the quantity is non-numeric.</pre>
Notes:	This specific PTD loop is required if the account has net metering or is a part of an Aggregated Net Energy Metering (ANEM) Family. If the meter measures total usage, as well as on-peak, intermediate peak and off-peak, there will be three MEA loops sent within each QTY loop to specify which time of use each MEA applies to. If any TOU measurement is zero, it must be sent.
PA Use:	Not Used
NJ Use:	Not Used
DE Use:	Not Used
MD Use:	Required Notes for use $\underline{OTY01 = 77:}$ required in ANEM family accounts when generation is transferred into the account. Not used for net metered accounts not part of ANEM family. $\underline{OTY01 = 78:}$ required in ANEM family accounts when generation is transferred out of the account. Not used for net metered accounts not part of ANEM family. $\underline{OTY01 = 79:}$ required in ANEM family accounts and regular net metered accounts not part of ANEM family when there is excess generation self-applied from the Starting Bank. $\underline{OTY01 = QB:}$ required in ANEM family accounts and regular net metered accounts not part of ANEM family when there is excess generation for a True-Up event. $\underline{OTY01 = QH}$ (Starting Bank) & QE (Ending Bank): required for the PARENTHOST account and CHILD accounts with net metering under the ANEM family. Also required for any net metered account that is not part of the ANEM family. These segments will be sent even where the value is 0 kWh. Not sent under the PARENT account for PHI.
Example:	QTY*77*1000*KHExample generation transferred in to this child accountMEA*AF*PRQ*1000*KH***51Image: Construction transferred out from TOU parent accountQTY*78*750*KHExample generation transferred out from TOU parent accountMEA*AF*PRQ*400*KH***41MEA*AF*PRQ*300*KH***42MEA*AF*PRQ*50*KH***43Additional examples provided in the back of this Implementation Guideline.

Data Element Summary

Must Use	Ref. <u>Des.</u> QTY01	Data <u>Element</u> 673	<u>Name</u> Quantity Qualifier Code specifying the type		Attributes M ID 2/2
			77	Stock Transfers In	
				Generation transferred from anothe account	er account to this
			78	Stock Transfers Out	
				Generation transferred from this ac account	count to another
			79	Billing Unit(s) Per Pricing Unit	
				Self-generation applied from Startin	ng Bank
			QB	Quantity Dispensed	
				Excess generation for True-Up even	nt.
			QE	Quantity Carried Forward	
	867]	Monthly Us	age (4010)	73 IG867MUv6-7.doo	cxx

				Ending Bank		
			QH	Quantity on Hold		
				Starting Bank		
Must Use	QTY02	380	Quantity		Х	R 1/15
			Numeric value of quan	ntity		
Must Use	QTY03	355	Unit or Basis for	Measurement Code	Μ	ID 2/2
	-		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		h a measurement	
			KH	Kilowatt Hour (kWh)		

Segment:	MEA Measurements			
Position:	160			
Loop:	QTY			
Level:	Detail			
Usage:	Optional			
Max Use:	40			
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances,			
	and weights (See Figures Appendix for example of use of C001)			
Syntax Notes:	1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.			
	2 If MEA05 is present, then MEA04 is required.			
	3 If MEA06 is present, then MEA04 is required.			
	4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.			
	5 Only one of MEA08 or MEA03 may be present.			
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.			
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or			
	any measurement where a positive $(+)$ value cannot be assumed, use MEA05 as the			
Notes:	negative (-) value and MEA06 as the positive (+) value.			
Inotes:	This specific PTD loop is required if the account has net metering or is a part of an Aggregated Net Energy Metering (ANEM) Family.			
	The MEA segment is sent for each QTY loop. The MEA will indicate the "time of use" that applies			
	to the QTY.			
PA Use:	Required (optional on a cancellation)			
NJ Use:	Same as PA			
DE Use:	Same as PA			
MD Use:	Same as PA			
Examples:	QTY*77*1000*KH Example kWh transferred to child account			
•	MEA*AF*PRQ*1000*KH***51			
	QTY*78*750*KH Example kWh transferred away from TOU host account			
	MEA*AF*PRQ*400*KH***41			
	MEA*AF*PRQ*300*KH***42			
	MEA*AF*PRQ*50*KH***43			

Data Element Summary

	Ref.	Data	Data Element Summary	
	Des.	<u>Element</u>	<u>Name</u>	Attributes
Must Use	MEA01	737	Measurement Reference ID Code	O ID 2/2
			Code identifying the broad category to which a measurement a	pplies
			AF Actual Total	
			Total consumption being tran account or to a child account value.	
Must Use	MEA02	738	Measurement Qualifier	O ID 1/3
			Code identifying a specific product or process characteristic to	
			PRQ Consumption	
Must Use	MEA03	739	Measurement Value The value of the measurement	X R 1/20
			Represents quantity of consumption being transfer accounts for a service period. The addition of the the PTD*PM and PTD*BC loop should add to the	QTYs in this loop, as well as
Must Use	MEA04	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, has been taken	M ID 2/2 or manner in which a measurement
			KH Kilowatt Hour	
Must Use	MEA07	935	Measurement Significance Code	O ID 2/2
			Code used to benchmark, qualify or further define	a measurement value
867 Monthly Usage (4010) 75 IG867MUv6-7.docxx				

41	Off Peak
42	On Peak
43	Intermediate
51	Total
	Totalizer
66	Shoulder

Segment:	SE Transaction Set Trailer			
Position:	030			
Loop:				
Level:	Summary			
Usage:	Mandatory			
Max Use:	1			
Purpose:	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)			
Syntax Notes:				
Semantic Notes:				
Comments:	1 SE is the last segment of each transaction set.			
PA Use:	Required			
NJ Use:	Required			
DE Use:	Required			
MD Use:	Required			

Data Element Summary

SE*28*000000001

Example:

	Ref.	Data			
	Des.	<u>Element</u>	Name	Att	<u>ributes</u>
Must Use	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and St	M E segm	N0 1/10 nents
Must Use	SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set for by the originator for a transaction set	M unctior	AN 4/9 nal group assigned

Examples:

General Note:

For the detail portion, you may send your PTD loops in any order; this is a function of ANSI. The indicator in the PTD loop tells what information is contained in the loop. A translator's mapper will map the loop according to your instructions.

Example 1 - One Meter - On/off peak:

Following example is for an account with one meter. Meter multiplier is 2, Power factor is 1.9999, and no transformer loss. The meter measures on and off peak consumption, and the meter readings are at the on / off peak consumption level. The meter also measures on and off peak demand.

- Total consumption is 100 KWH (60 on peak / 40 off-peak). Demand: On peak 4.7, Off peak 4.1 (billed 4.7).
- This example includes the Summary loop which summarizes kWh (and KVARH, if it existed), and the Monthly Billed Summary for billed kWh, kW (and kvarh if relevant).

BPT*00*REF1-990125*19990125*DD	Meter detail loop
DTM*649*19990202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time.
MEA**NP*0.66667	Percent participation. If 100%, no need to send. This example is ESP has 66.667%, LDC 33.333%.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME	Customer name
REF*12*1234567891	LDC Account number
REF*45*9395819001	Old LDC Account number (to be sent for 60 days after a account number change)
REF*11*1394951	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary loop
DTM*150*19990101	Start period
DTM*151*19990131	End period
QTY*D1*100*KH	Monthly billed kWh
QTY*D1*4.7*K1	Monthly derived (billed) demand
QTY*QD*4.7*K1	Monthly measured demand
PTD*SU	Metered services Summary loop
DTM*150*19990101	
DTM*151*19990131	
QTY*QD*100*KH	Calculated summary of all meters for kWh / kvarh only
PTD*PM	Meter detail loop for kWh
DTM*150*19990101	
DTM*151*19990131	
REF*MG*1111111	Meter number
REF*NH*RES	LDC Rate
REF*PR*RESRT	LDC Rate Subclass
REF*JH*A	Additive meter
REF*IX*6.0	Number of dials or digits
QTY*QD*100*KH	Consumption
MEA**MU*2	Meter multiplier = 2
MEA*AA*PRQ*100*KH*1201*1250*51	Total consumption with begin/end reads
QTY*QD*60*KH	Consumption
MEA**MU*2	Meter multiplier = 2
MEA*AA*PRQ*60*KH*11001*11030*42	(On peak with consumption and begin/end reads)
QTY*QD*40*KH	Consumption
MEA**MU*2	Meter multiplier = 2
MEA*AA*PRQ*40*KH*23031*23050*41	(Off peak with consumption and begin/end reads)
PTD*PM	Meter detail loop for kW
DTM*150*19990101	
DTM*151*19990131	

REF*MG*1111111	Meter number
REF*NH*RES	LDC Rate
REF*PR*RESRT	LDC Rate Subclass
REF*JH*A	Additive meter
REF*IX*6.0	Number of dials or digits
QTY*QD*4.7*K1	Demand
MEA**MU*2	Meter multiplier $= 2$
MEA**ZA*1.9999	Power factor $= 1.9999$
MEA*AA*PRQ*4.7*K1***42	On peak demand – readings not required since reset each month
QTY*QD*4.2*K1	Demand
MEA**MU*2	Meter multiplier = 2
MEA**ZA*1.9999	Power factor $= 1.9999$
MEA*AA*PRQ*4.2*K1***41	Off peak demand

Example 2 – One Meter - Totalizer

Following example is for an account with one meter. Meter multiplier is 2, Power factor is 1.9999, and no transformer loss. The meter measures on and off peak consumption, and the meter readings are only at the "totalizer" level. The meter also measures on and off peak demand.

- Total consumption is 100 KWH (60 on peak / 40 off-peak). Demand: On peak 4.7, Off peak 4.1 (billed 4.7).
- This example includes the Summary loop which summarizes kWh (and Kvarh, if it existed), and the Monthly Billed Summary for billed kWh, kW (and kvarh if relevant).

BPT*00*REF1-990155*19990131*DD	Meter detail loop
DTM*649*19990202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always
	represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME	Customer name
REF*12*1234567890	LDC Account number
REF*45*9395819000	Old LDC Account number (to be sent for 60 days after a account number change)
REF*11*1394959	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary loop
DTM*150*19990101	Start period
DTM*151*19990131	End period
QTY*D1*100*KH	Monthly billed kWh
QTY*D1*4.7*K1	Monthly derived demand
QTY*QD*4.7*K1	Monthly measured demand
PTD*SU	Metered services Summary loop
DTM*150*19990101	Start period
DTM*151*19990131	End period
QTY*QD*100*KH	Calculated summary of all metered for kWh / kvarh only
PTD*PM	Meter detail loop
DTM*150*19990101	Start period
DTM*151*19990131	End period
REF*MG*11111111	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*100*KH	Consumption
MEA**MU*2	Meter multiplier = 2
MEA*AA*PRQ*100*KH*2500*2550*51	Total consumption, and begin and end readings
QTY*QD*60*KH	Consumption
MEA**MU*2	Meter multiplier = 2
MEA*AA*PRQ*60*KH***42	(On peak consumption)
QTY*QD*40*KH	Consumption
MEA**MU*2	Meter multiplier = 2
MEA*AA*PRQ*40*KH***41	(off peak consumption)
PTD*PM	Meter detail loop
DTM*150*19990101	Start period

DTM*151*19990131	End period
REF*MG*1111111	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*4.7*K1	Demand
MEA**MU*2	Meter multiplier = 2
MEA**ZA*1.9999	Power factor $= 1.9999$
MEA*AA*PRQ*4.7*K1***42	On peak demand – readings not required since reset each month
QTY*QD*4.2*K1	Demand
MEA**MU*2	Meter multiplier = 2
MEA**ZA*1.9999	Power factor $= 1.9999$
MEA*AA*PRQ*4.2*K1***41	Off peak demand)

Example 3 – One Meter – Totalizer Only – No Demand:

Following example is for an account with one meter. Meter multiplier is 1. There is no Power factor and no transformer loss. There is no time of use on the meter. Demand is not measured.

- Total consumption is 600 kWh.
- This example includes the Summary loop which summarizes kWh, and the Monthly Billed Summary for billed kWh.

BPT*00*REF1-990124*19990124*DD	Meter detail loop	
DTM*649*19990202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time.	
N1*8S*LDC COMPANY*1*007909411	LDC Company	
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company	
N1*8R*CUSTOMER NAME	Customer name	
REF*12*12345678920	LDC Account number	
REF*45*93958190020	Old LDC Account number (to be sent for 60 days after a account number change)	
REF*11*13949529	ESP Account number	
REF*BLT*DUAL	Bill type	
REF*PC*DUAL	Bill Calculator	
PTD*BB	Monthly Billed Summary loop	
DTM*150*19990101	Start period	
DTM*151*19990131	End period	
QTY*D1*600*KH	Monthly billed kWh	
PTD*SU	Metered services Summary loop	
DTM*150*19990101	Start period	
DTM*151*19990131	End period	
QTY*QD*600*KH	Calculated summary of all metered for kWh / kvarh only	
PTD*PM	Meter detail loop	
DTM*150*19990101	Start period	
DTM*151*19990131	End period	
REF*MG*22222222		
REF*JH*A		
REF*IX*6.0	Number of dials or digits	
QTY*QD*600*KH	Consumption	
MEA*AA*PRQ*600*KH*32000*32600*51	Total consumption, and begin and end readings	

Selected Billing Test Scenarios:

<u>Scenario - Single meter totalized (one rate), Month 1</u> Consumption is 1234.

Consumption is 1234.

BPT*00*REF01-990201*19990201*DD

Meter detail loop

867 Monthly Usage (4010)

DTM*649*19990202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always	
	represented as Eastern prevailing time.	
N1*8S*LDC COMPANY*1*007909411	LDC Company	
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company	
N1*8R*CUSTOMER NAME – ACCT1	Customer name	
REF*12*11111111111111	LDC Account number	
REF*11*1394959	ESP Account number	
REF*BLT*DUAL	Bill type	
REF*PC*DUAL	Bill Calculator	
PTD*BB	Monthly Billed Summary loop	
DTM*150*19990101	Start period	
DTM*151*19990131	End period	
QTY*D1*1234*KH	Monthly billed kWh	
PTD*SU	Metered services Summary loop	
DTM*150*19990101	Start period	
DTM*151*19990131	End period	
QTY*QD*1234*KH	Calculated summary of all metered for kWh / kvarh only	
PTD*PM	Meter detail loop	
DTM*150*19990101	Start period	
DTM*151*19990131	End period	
REF*MG*2222222S		
REF*JH*A		
REF*IX*6.0	Number of dials or digits	
QTY*QD*1234*KH	Consumption	
MEA*AA*PRQ*1234*KH*32000*33234*51	Total consumption, and begin and end readings	

<u>Scenario - Single meter with time of day billing, Month 1</u> On peak – 724, Off peak 539.

BPT*00*REF04-990201*19990201*DD	Meter detail loop	
DTM*649*19990202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always	
	represented as Eastern prevailing time.	
N1*8S*LDC COMPANY*1*007909411	LDC Company	
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company	
N1*8R*CUSTOMER NAME – ACCT4	Customer name	
REF*12*444444444	LDC Account number	
REF*11*13949594	ESP Account number	
REF*BLT*DUAL	Bill type	
REF*PC*DUAL	Bill Calculator	
PTD*BB	Monthly Billed Summary loop	
DTM*150*19990101	Start period	
DTM*151*19990131	End period	
QTY*D1*1263*KH	Monthly billed kWh	
PTD*SU	Metered services Summary loop	
DTM*150*19990101	Start period	
DTM*151*19990131	End period	
QTY*QD*1263*KH	Calculated summary of all metered for kWh / kvarh only	
PTD*PM	Meter detail loop	
DTM*150*19990101	Start period	
DTM*151*19990131	End period	
REF*MG*2222233S		
REF*JH*A		
REF*IX*6.0	Number of dials or digits	
QTY*QD*1263*KH	Consumption	
MEA*AA*PRQ*1263*KH*10000*11263*51	Total consumption	
QTY*QD*724*KH	Consumption	
MEA*AA*PRQ*724*KH*32000*32724*42	On peak, and begin and end readings	
QTY*QD*539*KH	Consumption	
MEA*AA*PRQ*539*KH*15000*15539*41	Off peak, and begin and end readings	

<u>Scenario - Single meter totalized. Meter switched by LDC during month 1.</u> Meter 1 usage 652, meter 2 usage 235.

BPT*00*REF06-990201*19990201*DD	Meter detail loop	
DTM*649*19990202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always	
	represented as Eastern prevailing time.	
N1*8S*LDC COMPANY*1*007909411	LDC Company	
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company	
N1*8R*CUSTOMER NAME – ACCT6	Customer name	
REF*12*6323423480	LDC Account number	
REF*11*13949594	ESP Account number	
REF*BLT*DUAL	Bill type	
REF*PC*DUAL	Bill Calculator	
PTD*BB	Monthly Billed Summary loop	
DTM*150*19990101	Start period	
DTM*151*19990131	End period	
QTY*D1*887*KH	Monthly billed kWh	
PTD*SU	Metered services Summary loop	
DTM*150*19990101	Start period	
DTM*151*19990131	End period	
QTY*QD*887*KH	Calculated summary of all metered for kWh / kvarh only	
PTD*PM	Meter detail loop – Meter 1	
DTM*150*19990101	Start period	
DTM*514*19990121	End period	
REF*MG*222266S		
REF*JH*A		
REF*IX*6.0	Number of dials or digits	
QTY*QD*652*KH	Consumption – Meter 1	
MEA*AA*PRQ*652*KH*20000*20652*51	Total consumption, with begin/end readings-Meter 1	
PTD*PM	Meter detail loop – Meter 2	
DTM*514*19990122	Start period	
DTM*151*19990131	End period	
REF*MG*3333366S		
REF*JH*A		
REF*IX*6.0	Number of dials or digits	
QTY*QD*235*KH	Consumption – Meter 2	
MEA*AA*PRQ*235*KH*0*235*51	Total consumption, with begin/end readings- meter 2	

<u>Scenario - Single meter.</u>, <u>Demand and KWH meter (non-interval)</u>, <u>Month 1</u> Month 1 information: KW 14, KWH 22,348 (no readings available). Billed demand is 50 per contract.

represented a N1*8S*LDC COMPANY*1*007909411 LDC Company N1*SJ*ESP COMPANY*9*007909422ESP1 ESP Company N1*8R*CUSTOMER NAME – ACCT7 Customer namy REF*12*7777777777 LDC Accounty REF*11*13949594 ESP Accounty REF*BLT*DUAL Bill type REF*PC*DUAL Bill Calculatedy PTD*BB Monthly Billy DTM*150*19990101 Start periody	equired on Bill Ready Consolidated Billing scenarios. Time is always s Eastern prevailing time. hy y ne t number number	
represented a N1*8S*LDC COMPANY*1*007909411 LDC Company N1*SJ*ESP COMPANY*9*007909422ESP1 ESP Company N1*8R*CUSTOMER NAME – ACCT7 Customer namy REF*12*7777777777 LDC Accounty REF*11*13949594 ESP Accounty REF*BLT*DUAL Bill type REF*PC*DUAL Bill Calculatedy PTD*BB Monthly Billy DTM*150*19990101 Start periody	s Eastern prevailing time. ny y ne t number number pr	
N1*8S*LDC COMPANY*1*007909411 LDC Compare N1*SJ*ESP COMPANY*9*007909422ESP1 ESP Compare N1*8R*CUSTOMER NAME – ACCT7 Customer name REF*12*7777777777 LDC Account REF*11*13949594 ESP Account REF*BLT*DUAL Bill type REF*PC*DUAL Bill Calculated PTD*BB Monthly Bill DTM*150*19990101 Start period DTM*151*19990131 End period	ny y ne t number number	
N1*SJ*ESP COMPANY*9*007909422ESP1 ESP Compan N1*8R*CUSTOMER NAME – ACCT7 Customer nar REF*12*7777777777 LDC Account REF*11*13949594 ESP Account REF*BLT*DUAL Bill type REF*PC*DUAL Bill Calculate PTD*BB Monthly Bill DTM*150*19990101 Start period DTM*151*19990131 End period	y ne t number number or	
N1*8R*CUSTOMER NAME – ACCT7 Customer nam REF*12*7777777777 LDC Account REF*11*13949594 ESP Account REF*BLT*DUAL Bill type REF*PC*DUAL Bill Calculate PTD*BB Monthly Bill DTM*150*19990101 Start period DTM*151*19990131 End period	ne t number number or	
REF*12*777777777 LDC Account REF*11*13949594 ESP Account REF*BLT*DUAL Bill type REF*PC*DUAL Bill Calculate PTD*BB Monthly Bill DTM*150*19990101 Start period DTM*151*19990131 End period	t number number	
REF*11*13949594 ESP Account REF*BLT*DUAL Bill type REF*PC*DUAL Bill Calculate PTD*BB Monthly Bill DTM*150*19990101 Start period DTM*151*19990131 End period	number or	
REF*BLT*DUALBill typeREF*PC*DUALBill Calculate PTD*BB Monthly BillDTM*150*19990101Start periodDTM*151*19990131End period	r	
REF*PC*DUALBill Calculate PTD*BB Monthly BillDTM*150*19990101Start periodDTM*151*19990131End period		
PTD*BB Monthly Bill DTM*150*19990101 Start period DTM*151*19990131 End period		
DTM*150*19990101 Start period DTM*151*19990131 End period	ed Summary loop	
DTM*151*19990131 End period		
QTY*D1*22348*KH Monthly bille	ed kWh	
QTY*D1*50*K1 Monthly deri	ved demand	
QTY*QD*14*K1 Monthly mea	sured demand	
PTD*SU Metered serv	ices Summary loop	
DTM*150*19990101 Start period	Start period	
DTM*151*19990131 End period		
QTY*QD*22348*KH Calculated su	mmary of all metered for kWh / kvarh only	
PTD*PM Meter detail 1	oop	
DTM*150*19990101 Start period		
DTM*151*19990131 End period		
REF*MG*2222277S		
REF*JH*A		
REF*IX*6.0 Number of di	als or digits	
QTY*QD*22348*KH Consumption		
MEA*AA*PRQ*22348*KH*130000*152348*51 Total consum	nption, with begin/end readings	
PTD*PM Meter detail I	oop	
DTM*150*19990101 Start period		
DTM*151*19990131 End period		
REF*MG*2222277S		
REF*JH*A		
REF*IX*6.0 Number of di	als or digits	
QTY*QD*14*K1 Demand		
MEA*AA*PRQ*14*K1***51 Total demand		

<u>Scenario - Multiple meters. Demand and KWH meter (non-interval).</u> Month 1 Meter 1 information: KW 14, KWH 22,348 (no readings available). Billed demand is 50 per contract.

Meter 2 information:	KW 15	KWH 20 000
Meter 2 mormation:	NW 1.2	$\mathbf{N} \mathbf{W} \mathbf{\Pi} \mathbf{Z} \mathbf{U} \mathbf{U} \mathbf{U} \mathbf{U}$

Weter 2 mitorination. Kw 15, Kw11 20,000	
BPT*00*REF07-990201*19990201*DD	Meter detail loop
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT8	Customer name
REF*12*88888888888888888888888888888888888	LDC Account number
REF*11*13949594	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary loop
DTM*150*19990101	Start period
DTM*151*19990131	End period
QTY*D1*42348*KH	Monthly billed kWh
QTY*D1*50*K1	Monthly derived demand
QTY*QD*29*K1	Monthly measured demand
PTD*SU	Metered services Summary loop
DTM*150*19990101	Start period
DTM*151*19990131	End period
QTY*QD*42348*KH	Calculated summary of all metered for kWh / kvarh only
PTD*PM	Meter 1 detail loop
DTM*150*19990101	Start period

DTM*151*19990131	End period
REF*MG*2222277S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*22348*KH	Consumption
MEA*AA*PRQ*22348*KH*130000*152348*51	Total consumption, with begin/end readings
PTD*PM	Meter 1 detail loop
DTM*150*19990101	Start period
DTM*151*19990131	End period
REF*MG*2222277S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*14*K1	Demand
MEA*AA*PRQ*14*K1***51	Total demand, with begin/end readings
PTD*PM	Meter 2 detail loop
DTM*150*19990101	Start period
DTM*151*19990131	End period
REF*MG*1234577S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*20000*KH	Consumption
MEA*AA*PRQ*20000*KH*185000*205000*51	Total consumption, with begin/end readings
PTD*PM	Meter 1 detail loop
DTM*150*19990101	Start period
DTM*151*19990131	End period
REF*MG*1234577S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*15*K1	Demand
MEA*AA*PRQ*15*K1***51	Total demand, with begin/end readings

Scenario - Multiple services, metered and unmetered. Metered consumption is 763, unmetered is 48.

BPT*00*REF09-990201*19990201*DD	Meter detail loop	
DTM*649*19990202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always	
	represented as Eastern prevailing time.	
N1*8S*LDC COMPANY*1*007909411	LDC Company	
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company	
N1*8R*CUSTOMER NAME – ACCT9	Customer name	
REF*12*999999999999	LDC Account number	
REF*11*13949594	ESP Account number	
REF*BLT*DUAL	Bill type	
REF*PC*DUAL	Bill Calculator	
PTD*BB	Monthly Billed Summary loop	
DTM*150*19990101	Start period	
DTM*151*19990131	End period	
QTY*D1*811*KH	Monthly billed kWh	
PTD*SU	Metered services Summary loop	
DTM*150*19990101	Start period	
DTM*151*19990131	End period	
QTY*QD*763*KH	Calculated summary of all metered for kWh / kvarh only	
PTD*PM	Meter detail loop	
DTM*150*19990101	Start period	
DTM*151*19990131	End period	
REF*MG*2222299S		
REF*JH*A		
REF*IX*6.0	Number of dials or digits	
QTY*QD*763*KH	Consumption	
MEA*AA*PRQ*763*KH*12000*12763*51	Total consumption, with begin/end readings	
PTD*BC	Unmetered Services Summary	
DTM*150*19990101	Start period	
DTM*151*19990131	End period	

<u>Scenario - Unmetered Service alone.</u> Unmetered consumption is 97.

BPT*00*REF10-990201*19990201*DD	Meter detail loop
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME - ACCT10	Customer name
REF*12*100000000	LDC Account number
REF*11*13949594	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary loop
DTM*150*19990101	Start period
DTM*151*19990131	End period
QTY*D1*97*KH	Monthly billed kWh
PTD*BC	Unmetered Services Summary
DTM*150*19990101	Start period
DTM*151*19990131	End period
QTY*QD*97*KH	Unmetered consumption

<u>Scenario - Single meter totalized (one rate), month 2</u> Consumption is 867.

BPT*00*REF01-990301*19990301*DD	Meter detail loop	
N1*8S*LDC COMPANY*1*007909411	LDC Company	
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company	
N1*8R*CUSTOMER NAME – ACCT1	Customer name	
REF*12*1111111111111	LDC Account number	
REF*11*1394959	ESP Account number	
REF*BLT*DUAL	Bill type	
REF*PC*DUAL	Bill Calculator	
PTD*BB	Monthly Billed Summary loop	
DTM*150*19990201	Start period	
DTM*151*19990228	End period	
QTY*D1*867*KH	Monthly billed kWh	
PTD*SU	Metered services Summary loop	
DTM*150*19990201	Start period	
DTM*151*19990228	End period	
QTY*QD*867*KH	Calculated summary of all metered for kWh / kvarh only	
PTD*PM	Meter detail loop	
DTM*150*19990201	Start period	
DTM*151*19990228	End period	
REF*MG*2222222S		
REF*JH*A		
REF*IX*6.0	Number of dials or digits	
QTY*QD*867*KH	Consumption	
MEA*AA*PRQ*867*KH*33244*34111*51	Total consumption, and begin and end readings	

<u>Scenario - Cancel Months 1 and 2.</u> Separate documents must be sent for each month.

BPT*01*REF01-990310A*19990310*DD*****REF01-090201	Meter detail loop
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT1	Customer name
REF*12*1111111111111	LDC Account number
REF*11*1394959	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary loop
DTM*150*19990101	Start period
DTM*151*19990131	End period
QTY*D1*1234*KH	Monthly billed kWh
PTD*SU	Metered services Summary loop
DTM*150*19990101	Start period
DTM*151*19990131	End period
QTY*QD*1234*KH	Calculated summary of all metered for kWh / kvarh only
PTD*PM	Meter detail loop
DTM*150*19990101	Start period
DTM*151*19990131	End period
REF*MG*22222228	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*1234*KH	Consumption
MEA*AA*PRQ*1234*KH*32000*33234*51	Total consumption, and begin and end readings (not all LDCs can provide MEA on a cancel)

BPT*01*REF01-990310B*19990301*DD*****REF01-990301	Meter detail loop
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT1	Customer name
REF*12*1	LDC Account number
REF*11*1394959	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary loop
DTM*150*19990201	Start period
DTM*151*19990228	End period
QTY*D1*867*KH	Monthly billed kWh
PTD*SU	Metered services Summary loop
DTM*150*19990201	Start period
DTM*151*19990228	End period
QTY*QD*867*KH	Calculated summary of all metered for kWh / kvarh only
PTD*PM	Meter detail loop
DTM*150*19990201	Start period
DTM*151*19990228	End period
REF*MG*2222222S	
REF*MG*222222S REF*JH*A	
	Number of dials or digits
REF*JH*A	Number of dials or digits Consumption

<u>Scenario - Restatement of usage for Months 1 and 2.</u> Total usage for 2 months is 2043.

BPT*00*REF01-990310C*19990310*DD	Meter detail loop
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT1	Customer name
REF*12*11111111111111	LDC Account number
REF*11*1394959	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary loop
DTM*150*19990101	Start period
DTM*151*19990228	End period
QTY*D1*2043*KH	Monthly billed kWh
PTD*SU	Metered services Summary loop
DTM*150*19990101	Start period
DTM*151*19990228	End period
DTM*151*19990228 QTY*QD*2043*KH	End period Calculated summary of all metered for kWh only
QTY*QD*2043*KH	Calculated summary of all metered for kWh only
QTY*QD*2043*KH PTD*PM	Calculated summary of all metered for kWh only Meter detail loop
QTY*QD*2043*KH PTD*PM DTM*150*19990101	Calculated summary of all metered for kWh only Meter detail loop Start period
QTY*QD*2043*KH PTD*PM DTM*150*19990101 DTM*151*19990228	Calculated summary of all metered for kWh only Meter detail loop Start period
QTY*QD*2043*KH PTD*PM DTM*150*19990101 DTM*151*19990228 REF*MG*2222222S	Calculated summary of all metered for kWh only Meter detail loop Start period
QTY*QD*2043*KH PTD*PM DTM*150*19990101 DTM*151*19990228 REF*MG*22222228 REF*JH*A	Calculated summary of all metered for kWh only Meter detail loop Start period End period

<u>Scenario - FINAL during month 2.</u> Single meter with time of day billing. Month 2 – On peak – 189, Off peak 67.

BPT*00*REF04-990301*19990301*DD***F	Meter detail loop
DTM*649*19990202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always
	represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT4	Customer name
REF*12*444444444	LDC Account number
REF*11*13949594	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary loop
DTM*150*19990201	Start period
DTM*151*19990224	End period
QTY*D1*256*KH	Monthly billed kWh
PTD*SU	Metered services Summary loop
DTM*150*19990201	Start period
DTM*151*19990224	End period
QTY*QD*256*KH	Calculated summary of all metered for kWh / kvarh only
PTD*PM	Meter detail loop
DTM*150*19990201	Start period
DTM*151*19990224	End period
REF*MG*2222233S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*256*KH	Consumption
MEA*AA*PRQ*256*KH*20100*20356*51	Total consumption
QTY*QD*189*KH	Consumption
MEA*AA*PRQ*189*KH*32724*32913*42	On peak, and begin and end readings
QTY*QD*67*KH	Consumption
MEA*AA*PRQ*67*KH*15539*15606*41	Off peak, and begin and end readings

Scenario - Single meter. Demand and KWH meter (non-interval), Month 1:

KW 14, KWH 22,348 (no readings available – non-residential account). Percent participation: ESP has .6667, LDC has .3333

BPT*00*REF07-990201*19990201*DD	Meter detail loop
DTM*649*19990202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always
	represented as Eastern prevailing time.
MEA**NP*0.66667	Percent participation. This example is ESP has 66.667%, LDC 33.333%.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT17	Customer name
REF*12*17	LDC Account number
REF*11*13949594	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary loop
DTM*150*19990101	Start period
DTM*151*19990131	End period
QTY*D1*22348*KH	Monthly billed kWh
QTY*D1*14*K1	Monthly derived demand
QTY*QD*14*K1	Monthly measured demand
PTD*SU	Metered services Summary loop
DTM*150*19990101	Start period
DTM*151*19990131	End period
QTY*QD*22348*KH	Calculated summary of all metered for kWh / kvarh only
PTD*PM	Meter detail loop
DTM*150*19990101	Start period
DTM*151*19990131	End period
REF*MG*2222277S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*22348*KH	Consumption
MEA*AA*PRQ*22348*KH***51	Consumption
PTD*PM	Meter detail loop
DTM*150*19990101	Start period
DTM*151*19990131	End period
REF*MG*2222277S	
REF*JH*A	
REF*IX*6.0	Number of dials or digits
QTY*QD*14*K1	Consumption
MEA*AA*PRQ*14*K1***51	Total consumption, with begin/end readings

Pennsylvania, & New Jersey (not PSE&G or FirstEnergy) Net Metering / Customer Generation Examples

Net Meter / Customer Generation Scenario 1A: Consumption greater than generation

Single meter reporting both in and out flow KH. Customer consumed 1000KH and generated 200KH. The billed KH in the BB loop is 800KH. The net consumption in the SU loop is 800KH. The PM is looped, one for the consumption KH (1000KH) and another for the generation KH (200) both with same meter number.

BPT*00*REF06-120201*20120201*DD	Meter detail loop
DTM*649*20120202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always
	represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT6	Customer name
REF*12*6323423480	LDC Account number
REF*11*13949594	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator

PTD*BB	Monthly Billed Summary Loop
DTM*150*20120101	Start period
DTM*151*20120131	End period
QTY*D1*800*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20120101	Start period
DTM*151*20120131	End period
QTY*QD*800*KH	Calculated summary of all metered for KH / kvarh only
PTD*PM	Meter detail loop – Consumption Meter
DTM*150*20120101	Start period
DTM*151*20120131	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*1000*KH	Consumption
MEA*AA*PRQ*1000*KH*20000*21000*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop – Generation Meter
DTM*150*20120101	Start period
DTM*151*20120131	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*200*KH	Actual Generation
MEA*AA*PRQ*200*KH*300*500*51	Total generation, with begin/end readings

Net Meter / Customer Generation Scenario 1B: Generation greater than consumption

Single meter reporting both in and out flow KH.

Customer generated 1300KH and consumed 1000KH.

The billed KH in the BB loop is zero. The net generation reported in the SU loop is 300KH. The PM is looped, one for the consumption KH (1000KH) and another for the generation KH (1300) both with same meter number.

BPT*00*REF06-120201*20120201*DD	Meter detail loop
DTM*649*20120202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always
	represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT6	Customer name
REF*12*6323423480	LDC Account number
REF*11*13949594	ESP Account number
REF*BLT*DUAL	Bill type

REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary Loop
DTM*150*20120101	Start period
DTM*151*20120131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20120101	Start period
DTM*151*20120131	End period
QTY*87*300*KH	Calculated net KH
PTD*PM	Meter detail loop – Consumption Meter
DTM*150*20120101	Start period
DTM*151*20120131	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*1000*KH	Consumption
MEA*AA*PRQ*1000*KH*20000*21000*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop – Generation Meter
DTM*150*20120101	Start period
DTM*151*20120131	End period
REF*MG*11111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*1300*KH	Actual Generation
MEA*AA*PRQ*1300*KH*300*1600*51	Total generation, with begin/end readings

Net Meter / Customer Generation Scenario 2A: Consumption greater than generation

Single meter reporting net KH. Customer consumed 1000KH and generated 200KH. The billed KH in the BB loop is 800KH. The net generation is reported in both the SU and PM loops is 800KH. This method his does NOT report the customer's actual consumption; only the net generation is being reported.

BPT*00*REF06-120201*20120201*DD	Meter detail loop
DTM*649*20120202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT6	Customer name
REF*12*6323423480	LDC Account number
REF*11*13949594	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary Loop
DTM*150*20120101	Start period
DTM*151*20120131	End period
QTY*D1*800*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20120101	Start period
DTM*151*20120131	End period
QTY*QD*800*KH	Calculated summary of all metered for KH / kvarh only
PTD*PM	Meter detail loop
DTM*150*20120101	Start period
DTM*151*20120131	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*800*KH	Consumption
MEA*AA*PRQ*800*KH*20000*20800*51	Total consumption, with begin/end readings

Net Meter / Customer Generation Scenario 2B: Generation greater than consumption

Single meter reporting net KH. Customer generated 650KH and consumed 500KH. The billed KH in the BB loop is zero. The net generation is reported in both the SU and PM loops is 150KH. This method his does NOT report the customer's actual consumption; only the net generation is being reported.

BPT*00*REF06-120201*20120201*DD	Meter detail loop
DTM*649*20120202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always
	represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT6	Customer name
REF*12*6323423480	LDC Account number
REF*11*13949594	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary Loop
DTM*150*20120101	Start period
DTM*151*20120131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20120101	Start period
DTM*151*20120131	End period
QTY*87*150*KH	Net generation, the meter is only reporting the net
PTD*PM	Meter detail loop
DTM*150*20120101	Start period
DTM*151*20120131	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*150*KH	Actual Generation
MEA*AA*PRQ*150*KH*20000*20150*51	Net generation, with begin/end readings

Net Meter / Customer Generation Scenario 3A: Consumption greater than generation

Separate meters, one reporting inflow and another meter reporting outflow KH.

Customer consumed 1000KH and generated 600KH. The net consumption in the SU loop is 400KH. The billed KH in the BB loop is 400KH.

BPT*00*REF06-120201*20120201*DD	Meter detail loop
DTM*649*20120202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always
BIN 017 20120202 1700	represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT6	Customer name
REF*12*6323423480	LDC Account number
REF*11*13949594	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary Loop
DTM*150*20120101	Start period
DTM*151*20120131	End period
QTY*D1*400*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20120101	Start period
DTM*151*20120131	End period
QTY*QD*400*KH	Calculated summary of all metered for KH / kvarh only
PTD*PM	Meter detail loop – Consumption Meter
DTM*150*20120101	Start period
DTM*151*20120131	End period
REF*MG*2222266S	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*1000*KH	Consumption
MEA*AA*PRQ*1000*KH*20000*21000*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop – Generation Meter
DTM*150*20120101	Start period
DTM*151*20120131	End period
REF*MG*3333366S	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*600*KH	Actual Generation
MEA*AA*PRQ*600*KH*300*900*51	Total generation, with begin/end readings

Net Meter / Customer Generation Scenario 3B: Generation greater than consumption

Separate meters, one reporting inflow and another meter reporting outflow KH.

Customer generated 600KH and consumed 400KH. The net generation reported in the SU loop is 200KH. The billed KH in the BB loop is zero.

DTM*649*20120202*1700 This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. N1*8S*LDC COMPANY*1*007909411 LDC Company N1*8S*ESP COMPANY*9*007909422ESP1 ESP Company N1*8K*CUSTOMER NAME – ACCT6 Customer name REF*11*1394594 ESP Account number REF*11*13949594 ESP Account number REF*11*13949594 ESP Account number REF*11*13949594 Bill Calculator PTD*BB Monthly Billed Summary Loop DTM*150*20120101 Start period REF*IF*A Meter Role REF*IF*A Meter Role REF*IF*A Meter Role	The office KIT in the DD loop is zer	
represented as Eastern prevailing time. N1*8S*LDC COMPANY*1*007909411 LDC Company N1*8S*ESP COMPANY*9*007909422ESP1 ESP Company N1*8R*CUSTOMER NAME – ACCT6 Customer name REF*11*13949594 REF*11*13949594 REF*11*13949594 REF*11*13949594 REF*11*13949594 REF*11*13949594 REF*11*2012010 REF*11*2012010 DTM*150*20120101 Start period DTM*150*20120101 Start period REF*HAA Meter Role REF*HAA Meter Role REF*HAA Meter Role REF*HAA Meter Role REF*HA PTD*PM Meter detail loop – Generation Meter DTM*150*20120101 Start period DTM*150*20120101 Start period REF*HAA Meter Role REF*HAA Meter Role REF*HAS Meter Number REF*HAS Meter Number REF*HAS Meter Role REF*HAS Meter Role REF*HAS Me	BPT*00*REF06-120201*20120201*DD	Meter detail loop
N1*8S*LDC COMPANY*1*007909411 LDC Company N1*8S*CDC COMPANY*9*007909422ESP1 ESP Company N1*8R*CUSTOMER NAME – ACCT6 Customer name REF*12*6323423480 LDC Account number REF*11*13949594 ESP Account number REF*BLT*DUAL Bill type REF*BLT*DUAL Bill Calculator PTD*BB Monthly Billed Summary Loop DTM*150*20120101 Start period DTM*151*20120131 End period QTY*8D*QU120101 Start period DTM*151*20120131 End period QTY*87*200*KH Calculated summary loop DTM*151*20120131 End period QTY*87*200*KH Calculated summary of all metered for KH / kvarh only PTD*PM Meter detail loop – Consumption Meter DTM*151*20120131 End period REF*IF*A Meter Role REF*IF*A Meter Role REF*IF*A Meter Role REF*IF*A Meter Role REF*IF*A Meter detail loop – Generation Meter DTM*150*20120101 Start period DTM*151*20120131 End period REF*IF*A Meter Role	DTM*649*20120202*1700	
N1*SJ*ESP COMPANY*9*007909422ESP1 ESP Company N1*SJ*ESP COMPANY*9*007909422ESP1 ESP Company N1*SR*CUSTOMER NAME – ACCT6 Customer name REF*11*1394524 ESP Account number REF*11*1394554 ESP Account number REF*BLT*DUAL Bill type REF*BLT*DUAL Bill Calculator PTD*BB Monthly Billed Summary Loop DTM*150*20120101 Start period DTM*151*20120131 End period QTY*b1*0*KH Monthly billed KH PTD*SU Metered services Summary loop DTM*150*20120101 Start period DTM*151*20120131 End period QTY*87*200*KH Calculated summary of all metered for KH / kvarh only PTD*PM Meter detail loop – Consumption Meter DTM*150*20120101 Start period DTM*150*20120101 Start period DTM*151*20120131 End period REF*NdF2222266S Meter Number REF*NdF2222266S Meter Number REF*NdF2222266S Meter Role REF*NdF2222266S Meter Role REF*NdF2010010 Start period DTM*151*20120131		1 0
N1*8R*CUSTOMER NAME – ACCT6Customer nameREF*12*6323423480LDC Account numberREF*11*13949594ESP Account numberREF*11*13949594Bill CalculatorREF*PC*DUALBill CalculatorPTD*8BMonthly Billed Summary LoopDTM*150*20120101Start periodQTY*D1*0*KHMonthly billed KHPTD*8UMetered services Summary loopDTM*150*20120101Start periodDTM*150*20120101Start periodQTY*87*200*KHCalculated summary of all metered for KH / kvarh onlyPTD*9NMeter detail loop – Consumption MeterDTM*150*20120101Start periodDTM*150*20120101Start periodQTY*87*200*KHCalculated summary of all metered for KH / kvarh onlyPTD*9NMeter detail loop – Consumption MeterDTM*151*20120131End periodREF*1H*AMeter NumberREF*1H*AMeter RumberREF*1H*AMeter detail loop – Generation MeterDTM*150*20120101Start periodDTM*150*20120101Start periodREF*1H*AMeter RumberREF*1H*A		
REF*12*6323423480LDC Account numberREF*11*13949594ESP Account numberREF*BLT*DUALBill typeREF*PC*DUALBill CalculatorPTD*BBMonthly Billed Summary LoopDTM*150*20120101Start periodQTY*D1*0*KHMonthly billed KHPTD*SUMetered services Summary loopDTM*151*20120131End periodQTY*D1*0*KHMonthly billed KHPTD*SUMetered services Summary loopDTM*150*20120101Start periodQTY*D1*200*KHCalculated summary of all metered for KH / kvarh onlyPTD*PMMeter detail loop - Consumption MeterDTM*151*20120131End periodREF*NL*222266SMeter NumberREF*NL*AMeter RoleREF*NL*ANumber of dials or digitsQTY*0400*KHConsumptionMEA*AA*PRQ*400*KH*20000*20400*51Total consumption, with begin/end readingsPTD*PMMeter detail loop - Generation MeterDTM*151*20120131End periodREF*NL*5.0Number of dials or digitsQTY*0400*KHConsumptionMEA*AA*PRQ*400*KH*20000*20400*51Total consumption, with begin/end readingsPTD*PMMeter detail loop - Generation MeterDTM*151*20120131End periodREF*NL*6.0Meter RoleREF*NL*6.0Meter RoleREF*NL*6.0Meter RoleREF*NL*6.0Meter detail loop - Generation MeterDTM*150*20120101Start periodREF*NL*6.0Meter RoleREF*NL*6.0Meter RoleREF*NL*	N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
REF*11*13949594ESP Account numberREF*BLT*DUALBill typeREF*BLT*DUALBill CalculatorPTD*BBMonthly Billed Summary LoopDTM*150*20120101Start periodDTM*151*20120131End periodQTY*D1*0*KHMonthly billed KHPTD*SUMetered services Summary loopDTM*151*20120131End periodQTY*87*200*KHCalculated summary of all metered for KH / kvarh onlyPTD*PMMetered tail loop - Consumption MeterDTM*150*20120101Start periodDTM*150*20120101Start periodDTM*150*20120101Start periodDTM*150*20120101Start periodDTM*150*20120101Start periodDTM*150*20120101Start periodDTM*150*20120101Start periodDTM*150*20120101Start periodDTM*150*20120101Start periodREF*JH*AMeter RoleREF*JH*AMeter RoleREF*J*AMeter detail loop - Consumption with begin/end readingsQTY*0D*400*KHConsumptionMEA*AA*PRQ*400*KH*20000*20400*51Total consumption, with begin/end readingsPTD*PMMeter detail loop - Generation MeterDTM*150*20120101Start periodREF*JH*SMeter NumberREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*S </td <td>N1*8R*CUSTOMER NAME – ACCT6</td> <td>Customer name</td>	N1*8R*CUSTOMER NAME – ACCT6	Customer name
REF*BLT*DUALBill typeREF*PC*DUALBill CalculatorPTD*BBMonthly Billed Summary LoopDTM*150*20120101Start periodDTM*151*20120131End periodQTY*D1*0*KHMonthly billed KHPTD*SUMetered services Summary loopDTM*151*20120101Start periodDTM*151*20120101Start periodQTY*87*200*KHCalculated summary of all metered for KH / kvarh onlyPTD*PMMeter detail loop - Consumption MeterDTM*151*20120101Start periodDTM*151*20120101Start periodPTD*PMMeter RoleREF*MG*222266SMeter NumberREF*IH*AMeter RoleREF*IK*6.0Number of dials or digitsQTY*QP*400*KHConsumption, with begin/end readingsPTD*PMMeter detail loop - Generation MeterDTM*151*20120101Start periodREF*IH*AMeter RoleREF*IH*AMeter RoleREF*IH*AMeter RoleREF*MG*3333366SMeter RoleREF*MG*3333366SMeter RoleREF*MG*3333366SMeter RoleREF*IH*SMeter RoleREF*IH*SMeter RoleREF*IH*SMeter RoleREF*JK*6.0Number of dials or digitsQTV*10101Start periodDTM*151*20120131End periodREF*JK*6.0Number of dials or digitsQTY*8*600*KHActual Generation	REF*12*6323423480	LDC Account number
REF*PC*DUALBill CalculatorPTD*BBMonthly Billed Summary LoopDTM*150*20120101Start periodDTM*151*20120131End periodQTY*D1*0*KHMonthly billed KHPTD*SUMetered services Summary loopDTM*150*20120101Start periodDTM*151*20120131End periodQTY*820*KHCalculated summary of all metered for KH / kvarh onlyPTD*PMMeter detail loop - Consumption MeterDTM*150*20120101Start periodDTM*150*20120101Start periodDTM*150*20120101Start periodDTM*150*20120101Start periodDTM*150*20120101Start periodREF*MG*222266SMeter NumberREF*IH*AMeter RoleREF*IK*6.0Number of dials or digitsQTY*QD*400*KHConsumptionMeter detail loop - Generation MeterDTM*150*20120101Start periodREF*IH*AMeter RoleREF*IH*AMeter RoleREF*IH*AMeter RoleREF*IH*AMeter RolePTD*PMMeter RoleDTM*150*20120101Start periodDTM*151*20120131End periodREF*IH*SMeter RoleREF*IH*SMeter RoleREF	REF*11*13949594	ESP Account number
PTD*BBMonthly Billed Summary LoopDTM*150*20120101Start periodDTM*151*20120131End periodQTY*D1*0*KHMonthly billed KHPTD*SUMetered services Summary loopDTM*150*20120101Start periodDTM*151*20120131End periodQTY*87*200*KHCalculated summary of all metered for KH / kvarh onlyPTD*PMMeter detail loop - Consumption MeterDTM*151*20120101Start periodDTM*151*20120131End periodREF*MG*2222266SMeter NumberREF*MG*2222266SNumber of dials or digitsQTY*87*00*KHConsumption, with begin/end readingsPTD*PMMeter RoleREF*MG*33336GSMeter NumberREF*MG*33336GSMeter NumberREF*MG*33336GSMeter NumberREF*MG*33336GSMeter NumberREF*MG*33336GSMeter NumberREF*MG*33336GSMeter NumberREF*MG*33336GSMeter NumberREF*MG*33336GSMeter NumberREF*MG*33336GSMeter NumberREF*MG*33336GSMeter NumberREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*S <td>REF*BLT*DUAL</td> <td>Bill type</td>	REF*BLT*DUAL	Bill type
DTM*150*20120101Start periodDTM*151*20120131End periodQTY*D1*0*KHMonthly billed KHPD*SUMetered services Summary loopDTM*151*20120101Start periodDTM*151*20120131End periodQTY*87*200*KHCalculated summary of all metered for KH / kvarh onlyPD*PMMeter detail loop - Consumption MeterDTM*151*20120101Start periodDTM*151*20120101Start periodDTM*151*20120101Start periodDTM*151*20120101Start periodDTM*151*20120131End periodREF*MG*2222266SMeter NumberREF*MG*2222266SNumber of dials or digitsQTY*QD*400*KHConsumptionMEAAA*PRQ*400*KH*20000*20400*51Total consumption, with begin/end readingsPTD*PMMeter detail loop - Generation MeterDTM*151*20120101Start periodRE*MG*333366SMeter NumberREF*MG*333366SMeter NumberREF*MG*333366SMeter RoleREF*MG*333366SMeter RoleREF*MG*333366SMeter RoleREF*MG*333366SMeter RoleREF*MG*33366SMeter RoleREF*MG*6.0Number of dials or digitsQTY*87*600*KHActual Generation	REF*PC*DUAL	Bill Calculator
DTM*151*20120131End periodQTY*D1*0*KHMonthly billed KHPTD*SUMetered services Summary loopDTM*150*20120101Start periodDTM*151*20120131End periodQTY*87*200*KHCalculated summary of all metered for KH / kvarh onlyPTD*PMMeter detail loop - Consumption MeterDTM*151*20120101Start periodDTM*150*20120101Start periodDTM*151*20120131End periodREF*MG*2222266SMeter NumberREF*IX*6.0Number of dials or digitsQTY*2D*400*KHConsumption, with begin/end readingsPTD*PMMeter detail loop - Generation MeterDTM*150*20120101Start periodREF*IX*6.0Number of dials or digitsQTY*2D*400*KHConsumption, with begin/end readingsPTD*PMMeter detail loop - Generation MeterDTM*151*20120131End periodREA*A*PRQ*400*KH*20000*20400*51Total consumption, with begin/end readingsPTD*PMMeter detail loop - Generation MeterDTM*151*20120131End periodREF*MG*333366SMeter NumberREF*MG*333366SMeter RoleREF*IH*SMeter RoleREF*IH*SMeter RoleREF*IH*SMeter RoleREF*XF6.0Number of dials or digitsQTY*87*600*KHActual Generation	PTD*BB	Monthly Billed Summary Loop
PTP*NMonthy billed KHPTD*SUMetered services Summary loopDTM*150*20120101Start periodDTM*151*20120131End periodQTY*87*200*KHCalculated summary of all metered for KH / kvarh onlyPTD*PMMeter detail loop – Consumption MeterDTM*151*20120101Start periodDTM*151*20120131End periodDTM*151*20120131End periodREF*MG*222266SMeter NumberREF*JH*AMeter RoleREF*JH*AMeter RoleREF*IX*6.0Number of dials or digitsQTY*0D*400*KH*20000*20400*51Total consumption, with begin/end readingsPTD*PMMeter detail loop – Generation MeterDTM*151*20120131End periodREF*JH*AMeter RoleREF*JH*AMeter RoleREF*JK*6.0Number of dials or digitsQTY*0D*400*KH*20000*20400*51Total consumption, with begin/end readingsPTD*PMMeter detail loop – Generation MeterDTM*151*20120131End periodREF*JH*ASMeter RoleREF*JH*ASMeter RoleREF*JH*ASMeter RoleREF*JH*ASMeter RoleREF*JH*ASMeter RoleREF*JH*ASMeter RoleREF*JH*ASMeter RoleREF*JK*6.0Number of dials or digitsQTY*87*600*KHActual Generation	DTM*150*20120101	Start period
PTD*SUMetered services Summary loopDTM*150*20120101Start periodDTM*151*20120131End periodQTY*87*200*KHCalculated summary of all metered for KH / kvarh onlyPTD*PMMeter detail loop – Consumption MeterDTM*150*20120101Start periodDTM*151*20120131End periodREF*MG*2222266SMeter NumberREF*IX*6.0Number of dials or digitsQTY*QD*400*KHConsumptionMeter detail loop – Generation MeterDTM*150*20120101Start periodREF*IX*6.0Number of dials or digitsQTY*QD*400*KH*20000*20400*51Total consumption, with begin/end readingsPTD*PMMeter detail loop – Generation MeterDTM*151*20120101Start periodREF*MMSMeter RoleREF*MMSMeter detail loop – Generation MeterDTM*151*20120101Start periodREF*MMSMeter RoleREF*MMSMeter RoleREF*MG*333366SMeter NumberREF*MG*333366SMeter RoleREF*IX*6.0Number of dials or digitsQTY*87*600*KHActual Generation	DTM*151*20120131	End period
DTM*150*20120101Start periodDTM*151*20120131End periodQTY*87*200*KHCalculated summary of all metered for KH / kvarh onlyPTD*PMMeter detail loop – Consumption MeterDTM*150*20120101Start periodDTM*151*20120131End periodREF*MG*2222266SMeter NumberREF*IX*6.0Number of dials or digitsQTY*QD*400*KHConsumption, with begin/end readingsPTD*PMMeter detail loop – Generation MeterDTM*150*20120101Start periodREF*IX*6.0Number of dials or digitsQTY*QD*400*KHConsumption, with begin/end readingsPTD*PMMeter detail loop – Generation MeterDTM*150*20120101Start periodREF*MG*333366SMeter NumberREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*SMeter RoleREF*IX*6.0Number of dials or digitsQTY*87*600*KHActual Generation	QTY*D1*0*KH	Monthly billed KH
DTM*151*20120131End periodQTY*87*200*KHCalculated summary of all metered for KH / kvarh onlyPTD*PMMeter detail loop – Consumption MeterDTM*150*20120101Start periodDTM*151*20120131End periodREF*MG*2222266SMeter NumberREF*IH*AMeter RoleREF*IX*6.0Number of dials or digitsQTY*QD*400*KHConsumption, with begin/end readingsPTD*PMMeter detail loop – Generation MeterDTM*151*20120101Start periodREF*MG*333366SMeter NumberREF*JH*SMeter RoleREF*JH*SMeter detail loop – Generation MeterDTM*151*20120131End periodREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*SMeter RoleREF*IX*6.0Number of dials or digitsQTY*87*600*KHActual Generation	PTD*SU	Metered services Summary loop
QTY*87*200*KHCalculated summary of all metered for KH / kvarh onlyPTD*PMMeter detail loop – Consumption MeterDTM*150*20120101Start periodDTM*151*20120131End periodREF*MG*2222266SMeter NumberREF*JH*AMeter RoleREF*IX*6.0Number of dials or digitsQTY*QD*400*KHConsumptionMEA*AA*PRQ*400*KH*20000*20400*51Total consumption, with begin/end readingsPTD*PMMeter detail loop – Generation MeterDTM*151*20120101Start periodDTM*151*20120101Start periodREF*MG*3333366SMeter NumberREF*JH*SMeter RoleREF*JH*SMeter RoleREF*IX*6.0Number of dials or digitsQTY*87*600*KHConsumption, with begin/end readingsQTY*87*600*KHActual Generation	DTM*150*20120101	Start period
PTD*PMMeter detail loop - Consumption MeterDTM*150*20120101Start periodDTM*151*20120131End periodREF*MG*2222266SMeter NumberREF*JH*AMeter RoleREF*IX*6.0Number of dials or digitsQTY*QD*400*KHConsumptionMEA*AA*PRQ*400*KH*20000*20400*51Total consumption, with begin/end readingsPTD*PMMeter detail loop - Generation MeterDTM*150*20120101Start periodDTM*150*20120101Start periodREF*MG*3333366SMeter NumberREF*JH*SMeter RoleREF*IX*6.0Number of dials or digitsQTY*87*600*KHActual Generation	DTM*151*20120131	End period
DTM*150*20120101Start periodDTM*151*20120131End periodREF*MG*2222266SMeter NumberREF*JH*AMeter RoleREF*IX*6.0Number of dials or digitsQTY*QD*400*KHConsumptionMEA*AA*PRQ*400*KH*20000*20400*51Total consumption, with begin/end readingsPTD*PMMeter detail loop – Generation MeterDTM*150*20120101Start periodDTM*151*20120131End periodREF*JH*SMeter RoleREF*JH*SMeter RoleREF*IX*6.0Number of dials or digitsQTY*87*600*KHActual Generation	QTY*87*200*KH	Calculated summary of all metered for KH / kvarh only
DTM*151*20120131End periodREF*MG*2222266SMeter NumberREF*JH*AMeter RoleREF*IX*6.0Number of dials or digitsQTY*QD*400*KHConsumptionMEA*AA*PRQ*400*KH*20000*20400*51Total consumption, with begin/end readingsPTD*PMMeter detail loop – Generation MeterDTM*150*20120101Start periodDTM*151*20120131End periodREF*JH*SMeter RoleREF*JH*SMeter RoleREF*IX*6.0Number of dials or digitsQTY*87*600*KHActual Generation	PTD*PM	Meter detail loop – Consumption Meter
REF*MG*2222266SMeter NumberREF*JH*AMeter RoleREF*JH*ANumber of dials or digitsQTY*QD*400*KHConsumptionMEA*AA*PRQ*400*KH*20000*20400*51Total consumption, with begin/end readingsPTD*PMMeter detail loop – Generation MeterDTM*150*20120101Start periodDTM*151*20120131End periodREF*JH*SMeter RoleREF*IX*6.0Number of dials or digitsQTY*87*600*KHActual Generation	DTM*150*20120101	Start period
REF*JH*AMeter RoleREF*JH*AMeter RoleREF*IX*6.0Number of dials or digitsQTY*QD*400*KHConsumptionMEA*AA*PRQ*400*KH*20000*20400*51Total consumption, with begin/end readingsPTD*PMMeter detail loop – Generation MeterDTM*150*20120101Start periodDTM*151*20120131End periodREF*MG*3333366SMeter NumberREF*JH*SMeter RoleREF*IX*6.0Number of dials or digitsQTY*87*600*KHActual Generation	DTM*151*20120131	End period
REF*IX*6.0Number of dials or digitsQTY*QD*400*KHConsumptionMEA*AA*PRQ*400*KH*20000*20400*51Total consumption, with begin/end readingsPTD*PMMeter detail loop – Generation MeterDTM*150*20120101Start periodDTM*151*20120131End periodREF*MG*3333366SMeter NumberREF*JH*SMeter RoleREF*IX*6.0Number of dials or digitsQTY*87*600*KHActual Generation	REF*MG*2222266S	Meter Number
QTY*QD*400*KHConsumptionMEA*AA*PRQ*400*KH*20000*20400*51Total consumption, with begin/end readingsPTD*PMMeter detail loop – Generation MeterDTM*150*20120101Start periodDTM*151*20120131End periodREF*MG*3333366SMeter NumberREF*JH*SMeter RoleREF*IX*6.0Number of dials or digitsQTY*87*600*KHActual Generation	REF*JH*A	Meter Role
MEA*AA*PRQ*400*KH*20000*20400*51Total consumption, with begin/end readingsPTD*PMMeter detail loop – Generation MeterDTM*150*20120101Start periodDTM*151*20120131End periodREF*MG*3333366SMeter NumberREF*JH*SMeter RoleREF*IX*6.0Number of dials or digitsQTY*87*600*KHActual Generation	REF*IX*6.0	Number of dials or digits
PTD*PM Meter detail loop – Generation Meter DTM*150*20120101 Start period DTM*151*20120131 End period REF*MG*3333366S Meter Number REF*JH*S Meter Role REF*IX*6.0 Number of dials or digits QTY*87*600*KH Actual Generation	QTY*QD*400*KH	
DTM*150*20120101Start periodDTM*151*20120131End periodREF*MG*3333366SMeter NumberREF*JH*SMeter RoleREF*IX*6.0Number of dials or digitsQTY*87*600*KHActual Generation	MEA*AA*PRQ*400*KH*20000*20400*51	Total consumption, with begin/end readings
DTM*151*20120131 End period REF*MG*3333366S Meter Number REF*JH*S Meter Role REF*IX*6.0 Number of dials or digits QTY*87*600*KH Actual Generation	PTD*PM	Meter detail loop – Generation Meter
REF*MG*3333366S Meter Number REF*JH*S Meter Role REF*IX*6.0 Number of dials or digits QTY*87*600*KH Actual Generation	DTM*150*20120101	Start period
REF*JH*S Meter Role REF*IX*6.0 Number of dials or digits QTY*87*600*KH Actual Generation	DTM*151*20120131	End period
REF*IX*6.0 Number of dials or digits QTY*87*600*KH Actual Generation	REF*MG*3333366S	Meter Number
QTY*87*600*KH Actual Generation	REF*JH*S	Meter Role
(·· ································	REF*IX*6.0	Number of dials or digits
MEA*AA*PRQ*600*KH*300*900*51 Total generation, with begin/end readings	QTY*87*600*KH	Actual Generation
	MEA*AA*PRQ*600*KH*300*900*51	Total generation, with begin/end readings

Pennsylvania Net Metering / Customer Generation Examples ("Bank Rollover") / not FirstEnergy

Scenario is for single meter reading both consumption and generation. Month 1 is net generation applied into 'bank'. Month 2 is net consumption with bank applied to bill but not fully exhausted. Month 3 is net consumption with bank applied to bill and exhausted with remaining consumption billed to customer.

BPT*00*REF06-120201*20120201*DD	Meter detail loop
DTM*649*20120202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always
	represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT6	Customer name
REF*12*6323423480	LDC Account number
REF*11*13949594	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary Loop
DTM*150*20120101	Start period
DTM*151*20120131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20120101	Start period
DTM*151*20120131	End period
QTY*87*800*KH	Net KH – 800KH excess generation
PTD*PM	Meter detail loop – Consumption Loop
DTM*150*20120101	Start period
DTM*151*20120131	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*100*KH	Actual Consumption
MEA*AA*PRQ*100*KH*21000*21100*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop – Generation Loop
DTM*150*20120101	Start period
DTM*151*20120131	End period
REF*MG*11111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*900*KH	Actual Generation
MEA*AA*PRQ*900*KH*100*1000*51	Total generation, with begin/end readings

Month 1- Customer net generates 800KH into 'bank', billed KH is zero.

Month 2- Customer net consumes 500KH reducing the 800KH 'bank' by 500KH, billed KH remains zero.

	······································
BPT*00*REF06-120201*20120201*DD	Meter detail loop
DTM*649*20120202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always
	represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT6	Customer name
REF*12*6323423480	LDC Account number
REF*11*13949594	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary Loop
DTM*150*20120201	Start period
DTM*151*20120228	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20120201	Start period
DTM*151*20120228	End period
QTY*QD*500*KH	Net KH – 500KH consumption
PTD*PM	Meter detail loop – Consumption Loop
DTM*150*20120201	Start period
DTM*151*20120228	End period
REF*MG*1111111	Meter Number

REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*700*KH	Actual Consumption
MEA*AA*PRQ*700*KH*21100*21800*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop – Generation Loop
DTM*150*20120201	Start period
DTM*151*20120228	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*200*KH	Actual Generation
MEA*AA*PRQ*200*KH*1000*1200*51	Total generation, with begin/end readings

Month 3- Customer net consumes 500KH, empties the remaining 'bank' of 300KH, billed net of consumption and the bank which is 200KH.

BPT*00*REF06-120201*20120201*DD	Meter detail loop
DTM*649*20120202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always
DTM 047 20120202 1700	represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT6	Customer name
REF*12*6323423480	LDC Account number
REF*11*13949594	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary Loop
DTM*150*20120301	Start period
DTM*151*20120331	End period
QTY*D1*200*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20120301	Start period
DTM*151*20120331	End period
QTY*QD*500*KH	Net KH – 500KH consumption
PTD*PM	Meter detail loop – Consumption Loop
DTM*150*20120201	Start period
DTM*151*20120228	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*800*KH	Actual Consumption
MEA*AA*PRQ*800*KH*21800*22600*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop – Generation Loop
DTM*150*20120201	Start period
DTM*151*20120228	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*300*KH	Actual Generation
MEA*AA*PRQ*300*KH*1200*1500*51	Total generation, with begin/end readings

<u>Pennsylvania Net Metering / Customer Generation Examples (FirstEnergy Companies)</u> Scenario 1 – Customer Generation (2000 KH) more than Consumption (1500 KH)

BPT*00*700418133078E*20181213*DD	Meter detail loop
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT6	Customer name
REF*12*6323423480	LDC Account number
REF*11*13949594	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary Loop
DTM*150*20181115	Start period
DTM*151*20181213	End period
QTY*D1*1500.00000*KH	Monthly DELIVERED KH (Consumption)
PTD*SU	Metered services Summary loop
DTM*150*20181115	Start period
DTM*151*20181213	End period
QTY*QD*1500.00000*KH	Monthly DELIVERED KH
QTY*87*2000.00000*KH	Monthly RECEIVED KH
PTD*PM	Meter detail loop – Consumption Loop (DELIVERED KH)
DTM*150*20181115	Start period
DTM*151*20181213	End period
REF*MG*1111111	Meter Number
REF*6W*1	DELIVERED Channel ID (FirstEnergy ONLY)
REF*NH*ME-RSD	LDC Rate Class
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*1500.00000*KH	Actual Consumption (Delivered KH)
MEA*AA*PRQ*1500.00*KH*32134.00000*33634.00000*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop - Generation Loop (RECEIVED KH)
DTM*150*20181115	Start period
DTM*151*20181213	End period
REF*MG*11111111	Meter Number
REF*6W*2	RECEIVED Channel ID (FirstEnergy ONLY)
REF*NH*ME-RSD	LDC Rate Class
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*2000.00000*KH	Actual Generation (Received KH)
MEA*AA*PRQ*2000.00000*KH*2393.00000*4393.00000*51	Total generation, with begin/end readings

Scenario 2 - Customer Generation (500 KH) less than Consumption (1500 KH)

BPT*00*700418133078E*20181213*DD	Meter detail loop
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT6	Customer name
REF*12*6323423480	LDC Account number
REF*11*13949594	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary Loop
DTM*150*20181115	Start period
DTM*151*20181213	End period
QTY*D1*1500.00000*KH	Monthly DELIVERED KH (Consumption)
PTD*SU	Metered services Summary loop
DTM*150*20181115	Start period
DTM*151*20181213	End period
QTY*QD*1500.00000*KH	Monthly DELIVERED KH
QTY*87*500.00000*KH	Monthly RECEIVED KH
PTD*PM	Meter detail loop – Consumption Loop (DELIVERED KH)
DTM*150*20181115	Start period
DTM*151*20181213	End period
REF*MG*11111111	Meter Number
REF*6W*1	DELIVERED Channel ID (FirstEnergy ONLY)
REF*NH*ME-RSD	LDC Rate Class
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*1500.00000*KH	Actual Consumption (Delivered KH)
MEA*AA*PRQ*1500.00*KH*32134.00000*33634.00000*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop - Generation Loop (RECEIVED KH)
DTM*150*20181115	Start period
DTM*151*20181213	End period
REF*MG*11111111	Meter Number
REF*6W*2	RECEIVED Channel ID (FirstEnergy ONLY)
REF*NH*ME-RSD	LDC Rate Class
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*500.00000*KH	Actual Generation (Received KH)
MEA*AA*PRQ*500.00000*KH*2393.00000*4393.00000*51	Total generation, with begin/end readings

<u>New Jersey (PSE&G)</u> <u>Net Metering / Customer Generation Examples</u>

Net Meter / Customer Generation PSE&G Scenario 1A: Consumption greater than generation

Single meter reporting both in and out flow KH.

Customer consumed 1000KH and generated 200KH.

The billed KH in the BB loop is 800KH.

The net consumption in the SU loop is 800KH.

There is one PM with the QTY looped, one for the consumption KH (1000KH) and another for the generation KH (200) both with same meter number.

BPT*00*REF06-120201*20120201*DD	Meter detail loop
DTM*649*20120202*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always
	represented as Eastern prevailing time.
N1*8S*LDC COMPANY*1*007909411	LDC Company
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company
N1*8R*CUSTOMER NAME – ACCT6	Customer name
REF*12*6323423480	LDC Account number
REF*11*13949594	ESP Account number
REF*BLT*DUAL	Bill type
REF*PC*DUAL	Bill Calculator
PTD*BB	Monthly Billed Summary Loop
DTM*150*20120101	Start period
DTM*151*20120131	End period
QTY*D1*800*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20120101	Start period
DTM*151*20120131	End period
QTY*QD*800*KH	Calculated summary of all metered for KH / kvarh only
PTD*PM	Meter detail loop – Consumption Meter
DTM*150*20120101	Start period
DTM*151*20120131	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*1000*KH	Consumption
MEA*AA*PRQ*1000*KH*20000*21000*51	Total consumption, with begin/end readings
QTY*87*200*KH	Actual Generation
MEA*AA*PRQ*200*KH*300*500*51	Total generation, with begin/end readings

Net Meter / Customer Generation PSE&G Scenario 1B: Generation greater than consumption

Single meter reporting both in and out flow KH. Customer generated 1300KH and consumed 1000KH. The billed KH in the BB loop is zero. The net generation reported in the SU loop is 300KH. There is one PM with the QTYlooped, one for the consumption KH (1000KH) and another for the generation KH (1300).

BPT*00*REF06-120201*20120201*DD Meter detail loop DTM*649*20120202*1700 This is only required on Bill Ready Consolidated Billing scenarios. Time is always represented as Eastern prevailing time. N1*8S*LDC COMPANY*1*007909411 LDC Company N1*SJ*ESP COMPANY*9*007909422ESP1 ESP Company N1*8R*CUSTOMER NAME - ACCT6 Customer name REF*12*6323423480 LDC Account number REF*11*13949594 ESP Account number Bill type REF*BLT*DUAL REF*PC*DUAL Bill Calculator Monthly Billed Summary Loop PTD*BB DTM*150*20120101 Start period DTM*151*20120131 End period QTY*D1*0*KH Monthly billed KH PTD*SU Metered services Summary loop DTM*150*20120101 Start period DTM*151*20120131 End period QTY*87*300*KH Calculated net KH PTD*PM Meter detail loop - Consumption Meter DTM*150*20120101 Start period DTM*151*20120131 End period REF*MG*11111111 Meter Number REF*JH*A Meter Role REF*IX*6.0 Number of dials or digits QTY*QD*1000*KH Consumption MEA*AA*PRQ*1000*KH*20000*21000*51 Total consumption, with begin/end readings QTY*87*1300*KH **Actual Generation** MEA*AA*PRQ*1300*KH*300*1600*51 Total generation, with begin/end readings

<u>Maryland – 867 Monthly Usage - Multiple meter exchange in same service period.</u>

Service period 1/14/2013 to 2/13/2013 1st Meter Exchange on 1/17/2013 2nd Meter Exchange on 1/19/2013

BPT*00*1234567890*20130214*DD	Meter detail loop	
DTM*649*20130217*1700	This is only required on Bill Ready Consolidated Billing scenarios. Time is always	
	represented as Eastern prevailing time.	
N1*8S*LDC COMPANY*1*007909411	LDC Company	
N1*SJ*ESP COMPANY*9*007909422ESP1	ESP Company	
N1*8R*CUSTOMER NAME	Customer name	
REF*12*8771441829	LDC Account number	
REF*11*13949594	ESP Account number	
REF*BLT*LDC	Bill type	
REF*PC*DUAL	Bill Calculator	
PTD*BB	Monthly Billed Summary loop	
DTM*150*20130114	Start period	
DTM*151*20130213	End period	
QTY*D1*7187*KH	Monthly billed kWh	
PTD*SU	Metered services Summary loop	
DTM*150*20130114	Start period	
DTM*151*20130213	End period	
QTY*QD*7187*KH	Calculated summary of all metered for kWh / kvarh only	
PTD*PM	Meter detail loop	
DTM*150*20130114	Start period	
DTM*514*20130117	Meter Change Out Date	
REF*MG*OLDMETER1	Old Meter Number	
REF*JH*A	Meter Role	
REF*IX*6.0	Number of dials or digits	
QTY*QD*710*KH	Consumption	
MEA*AA*PRQ*710*KH***51	Consumption	
PTD*PM	Meter detail loop	
DTM*514*20130117	Start period	
DTM*514*20130119	End period	
REF*MG*MTREXCHG1	Meter Number of 1 st Meter Exchange	
REF*JH*A	Meter Role	
REF*IX*6.0	Number of dials or digits	
QTY*QD*0*KH	Consumption	
MEA*AA*PRQ*0*KH***51	Total consumption, with begin/end readings	
PTD*PM	Meter detail loop	
DTM*514*20130119	Start period	
DTM*151*20130213	End period	
REF*MG* MTREXCHG2	Meter Number of 2 nd Meter Exchange	
REF*JH*A	Meter Role	
REF*IX*6.0	Number of dials or digits	
QTY*QD*6477*KH	Consumption	
MEA*AA*PRQ*6477*KH***51	Total consumption, with begin/end readings	

Maryland (BGE)- Examples of regular Net Metered Accounts with PTD*BJ loop (non-TOU/TOU)

(these do not include Aggregate Net Energy Metered (ANEM) account scenarios)

BGE Scenario A - Non-TOU net meter account. Starting banked amount applied to current usage. Not enough banked generation to cover current usage. Remaining consumption amount billed and no ending banked amount.

Current usage amount in PM loop +800 kWh

Starting banked amount (QTY*QH) -600 kWh

Self-generation applied from Starting Bank (QTY*79) -600 kWh

Ending banked amounts (QTY*QE) 0 kWh

Non TOU Net Meter account	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*200*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*800*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*800*KH	Consumption
MEA*AA*PRQ*800*KH*59245*60045*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *600*KH	Starting Bank
MEA*AF*PRQ*600*KH***51	Starting Bank
QTY* 79 *600*KH	Self-Generation
MEA*AF*PRQ*600*KH***51	Self-Generation Applied

867 Monthly Usage (4010)

QTY* QE *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***51	Ending Bank

BGE Scenario B - Non-TOU account. Meter exchange (old meter is non-net meter; new meter is net meter). No starting banked amount. Old meter reflects positive usage; new meter reflects net negative usage. Zero billed usage. Account has an ending banked amount. Meter exchange on 12/18/17.

Current usage amount in PM loop

+500 kWh old meter -1000 kWh new meter

-1000 kwn new meter

Starting banked amount (QTY*QH) 0 kWh

Self-generation applied from Starting Bank (QTY*79) 0 kWh

Ending banked amounts (QTY*QE)

-500 kWh

Non TOU Net Meter account	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20171208	Start period
DTM*151*20180110	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20171208	Start period
DTM*151*20180110	End period
QTY*87*500*KH	Calculated net KH
PTD*PM	Meter detail loop – Meter 1
DTM*150*20171208	Start period
DTM*514*20171218	End period
REF*MG*1111111	Old Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*500*KH	Consumption
MEA*AA*PRQ*500*KH*59545*60045*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop – Meter 2
DTM*514*20171218	Start period
DTM*151*20180110	End period
REF*MG*2222222	New Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*1000*KH	Consumption

867 Monthly Usage (4010)

IG867MUv6-7.docxx

MEA*AA*PRQ*1000*KH*59245*58245*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20171208	Start period
DTM*151*20180110	End period
QTY* QH *0*KH	Starting Bank
MEA*AF*PRQ*0*KH***51	Starting Bank
QTY* 79 *0*KH	Self-Generation
MEA*AF*PRQ*0*KH***51	Self-Generation Applied from Starting Bank
QTY* QE *500*KH	Ending Bank
MEA*AF*PRQ*500*KH***51	Ending Bank

BGE Scenario C - Non-TOU account. Meter exchange (old meter is net meter; new meter is net meter). Account has starting banked amount. Old meter reflects negative usage; new meter reflects negative usage. Zero billed usage. Account has ending banked amount. Meter exchange on 12/18/17.

Current usage amount in PM loop -500 kWh old meter -1000 kWh new meter

Starting banked amount (QTY*QH) 600 kWh

Self-generation applied from Starting Bank (QTY*79) $0 \ \rm kWh$

Ending banked amounts (QTY*QE) -2100 kWh

Non TOU Net Meter account	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20171208	Start period
DTM*151*20180110	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20171208	Start period
DTM*151*20180110	End period
QTY*87*1500*KH	Calculated net KH
PTD*PM	Meter detail loop – Meter 1
DTM*150*20171208	Start period
DTM*514*20171218	End period
REF*MG*1111111	Old Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits

QTY*87*500*KH	Consumption
MEA*AA*PRQ*500*KH*59545*59045*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop – Meter 2
DTM*514*20171218	Start period
DTM*151*20180110	End period
REF*MG*22222222	New Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*1000*KH	Consumption
MEA*AA*PRQ*1000*KH*32145*31145*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20171208	Start period
DTM*151*20180110	End period
QTY* QH *600*KH	Starting Bank
MEA*AF*PRQ*600*KH***51	Starting Bank
QTY* 79 *0*KH	Self-Generation
MEA*AF*PRQ*0*KH***51	Self-Generation Applied from Starting Bank
QTY* QE *2100*KH	Ending Bank
MEA*AF*PRQ*2100*KH***51	Ending Bank

BGE Scenario D - Non-TOU account. Account has two meters. One meter is net metered; the other meter is <u>not</u> net metered. Account has starting banked amount. The net meter reflects negative usage. The other meter reflects positive usage. Current consumption of +500 is offset by current generation of -1000. Zero billed usage. No generation was applied from starting banked amount. Account has ending banked amount.

Current usage amount in PM loop

-1000 kWh for the net meter +500 kWh for the <u>non</u>-net meter

Starting banked amount (QTY*QH) 600 kWh

Self-generation applied from Starting Bank (QTY*79) 0 kWh

Ending banked amounts (QTY*QE) -1100 kWh

Non TOU Net Meter account	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20171208	Start period
DTM*151*20180110	End period

QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20171208	Start period
DTM*151*20180110	End period
QTY*87*500*KH	Calculated net KH
PTD*PM	Meter detail loop – Meter 1 (Net Meter)
DTM*150*20171208	Start period
DTM*151*20180110	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*1000*KH	Consumption
MEA*AA*PRQ*1000*KH*59545*58545*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop - Meter 2 (Non-net Meter)
DTM*150*20171208	Start period
DTM*151*20180110	End period
REF*MG*22222222	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*500*KH	Consumption
MEA*AA*PRQ*500*KH*32145*32645*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20171208	Start period
DTM*151*20180110	End period
QTY* QH *600*KH	Starting Bank
MEA*AF*PRQ*600*KH***51	Starting Bank
QTY* 79 *0*KH	Self-Generation
MEA*AF*PRQ*0*KH***51	Self-Generation Applied from Starting Bank
QTY* QE *1100*KH	Ending Bank
MEA*AF*PRQ*1100*KH***51	Ending Bank

BGE Scenario E - TOU net meter account with consumption for current month and starting/ending banked amounts. Zero usage billed.

Current usage amounts in PM loop

Off Peak +1000 kWh On Peak +1400 kWh Int Peak +1200 kWh

Starting banked amounts (QTY*QH)

Off Peak -2000 kWh On Peak -3000 kWh Int Peak -1500 kWh

Self-generation applied from Starting Bank (QTY*79)

Off Peak – 1000 kWh On Peak – 1400 kWh Int Peak – 1200 kWh

Ending banked amounts (QTY*QE)

Off Peak -1000 kWh On Peak -1600 kWh Int Peak -300 kWh

Note: For a regular net meter account (non-NMA/ANEM), BGE will only apply generation from an individual peak period to consumption from the same peak period. There will be no cross-peak pollination as done with BGE ANEM TOU accounts. Excess generation will roll forward at the peak level.

TOU Net Meter account	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*3600*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*1000*KH	Consumption - Off Peak
MEA*AA*PRQ*1000*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*1400*KH	Consumption - On Peak
MEA*AA*PRQ*1400*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*1200*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*1200*KH*0*0*43	Total consumption, with begin/end readings

867 Monthly Usage (4010)

PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *2000*KH	Starting Bank
MEA*AF*PRQ*2000*KH***41	Starting Bank – Off Peak
QTY* <mark>QH</mark> *3000*KH	Starting Bank
MEA*AF*PRQ*3000*KH***42	Starting Bank – On Peak
QTY* <mark>QH</mark> *1500*KH	Starting Bank
MEA*AF*PRQ*1500*KH***43	Starting Bank – Intermediate Peak
QTY* 79 *1000*KH	Self-Generation
MEA*AF*PRQ*1000*KH***41	Self-Generation Applied – Off Peak
QTY* 79 *1400*KH	Self-Generation
MEA*AF*PRQ*1400*KH***42	Self-Generation Applied – On Peak
QTY* 7 9*1200*KH	Self-Generation
MEA*AF*PRQ*1200*KH***43	Self-Generation Applied – Intermediate Peak
QTY* QE *1000*KH	Ending Bank
MEA*AF*PRQ*1000*KH***41	Ending Bank – Off Peak
QTY* <mark>QE</mark> *1600*KH	Ending Bank
MEA*AF*PRQ*1600*KH***42	Ending Bank – On Peak
QTY*QE*300*KH	Ending Bank
MEA*AF*PRQ*300*KH***43	Ending Bank – Intermediate Peak

BGE Scenario F - TOU net meter account. On and Intermediate Peak excess generation rolls forward; Off Peak consumption billed. No self-application.

Current usage amounts in PM loop

Off Peak +500 kWh On Peak -1000 kWh Int Peak -800 kWh

Starting banked amounts (QTY*QH)

Off Peak 0 kWh On Peak -2000 kWh Int Peak -1000 kWh

Self-generation applied from Starting Bank (QTY*79)

Off Peak 0 kWh On Peak 0 kWh Int Peak 0 kWh

Ending banked amounts (QTY*QE) Off Peak = 0 kWh On Peak -3000 kWh Int Peak -1800 kWh

Note: For a regular net meter account (non-NMA/ANEM), BGE will only apply generation from an individual peak period to consumption from the same peak period. There will be no cross-peak pollination as done with BGE ANEM TOU accounts. Excess generation will roll forward at the peak level.

TOU Net Meter account	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*500*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*87*1300*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*500*KH	Consumption - Off Peak
MEA*AA*PRQ*500*KH*0*0*41	Total consumption, with begin/end readings
QTY*87*1000*KH	Consumption - On Peak
MEA*AA*PRQ*1000*KH*0*0*42	Total consumption, with begin/end readings
QTY*87*800*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*800*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *0*KH	Starting Bank
MEA*AF*PRQ*0*KH***41	Starting Bank – Off Peak
QTY* <mark>QH</mark> *2000*KH	Starting Bank
MEA*AF*PRQ*2000*KH***42	Starting Bank – On Peak
QTY* QH *1000*KH	Starting Bank
	5
MEA*AF*PRQ*1000*KH***43	Starting Bank – Intermediate Peak
MEA*AF*PRQ*1000*KH***43 QTY* 79 *0*KH	
	Starting Bank – Intermediate Peak
QTY*79*0*KH	Starting Bank – Intermediate Peak Self-Generation
QTY* 79 *0*KH MEA*AF*PRQ*0*KH***41	Starting Bank – Intermediate Peak Self-Generation Self-Generation Applied – Off Peak
QTY* 79 *0*KH MEA*AF*PRQ*0*KH***41 QTY* 79 *0*KH	Starting Bank – Intermediate Peak Self-Generation Self-Generation Applied – Off Peak Self-Generation
QTY* 79 *0*KH MEA*AF*PRQ*0*KH***41 QTY* 79 *0*KH MEA*AF*PRQ*0*KH***42	Starting Bank – Intermediate Peak Self-Generation Self-Generation Applied – Off Peak Self-Generation Self-Generation Applied – On Peak
QTY*79*0*KH MEA*AF*PRQ*0*KH***41 QTY*79*0*KH MEA*AF*PRQ*0*KH***42 QTY*79*0*KH	Starting Bank – Intermediate Peak Self-Generation Self-Generation Applied – Off Peak Self-Generation Self-Generation Applied – On Peak Self-Generation Applied – On Peak Self-Generation
QTY*79*0*KH MEA*AF*PRQ*0*KH***41 QTY*79*0*KH MEA*AF*PRQ*0*KH***42 QTY*79*0*KH MEA*AF*PRQ*0*KH***43	Starting Bank – Intermediate Peak Starting Bank – Intermediate Peak Self-Generation Self-Generation Applied – Off Peak Self-Generation Applied – On Peak Self-Generation Self-Generation Self-Generation Applied – On Peak Self-Generation Self-Generation Self-Generation
QTY*79*0*KH MEA*AF*PRQ*0*KH***41 QTY*79*0*KH MEA*AF*PRQ*0*KH***42 QTY*79*0*KH MEA*AF*PRQ*0*KH***43 QTY*QE*0*KH	Starting Bank – Intermediate Peak Starting Bank – Intermediate Peak Self-Generation Self-Generation Applied – Off Peak Self-Generation Applied – On Peak Self-Generation Applied – On Peak Self-Generation Applied – Intermediate Peak Ending Bank

QTY* QE *1800*KH	Ending Bank
MEA*AF*PRQ*1800*KH***43	Ending Bank – Intermediate Peak

BGE Scenario G - TOU net meter account. On Peak excess generation rolls forward. Selfgeneration applied to Intermediate and Off Peak. Remaining consumption for Intermediate and Off Peak billed.

Current usage amounts in PM loop Off Peak +800 kWh On Peak -1000 kWh

Int Peak +700 kWh

Starting banked amounts (QTY*QH)

Off Peak -200 kWh On Peak -500 kWh Int Peak -200 kWh

Self-generation applied from Starting Bank (QTY*79)

Off Peak -200 kWh On Peak 0 kWh Int Peak -200 kWh

Ending banked amounts (QTY*QE)

Off Peak 0 kWh On Peak -1500 kWh Int Peak 0 kWh

Note: For a regular net meter account (non-NMA/ANEM), BGE will only apply generation from an individual peak period to consumption from the same peak period. There will be no cross-peak pollination as done with BGE ANEM TOU accounts. Excess generation will roll forward at the peak level.

TOU Net Meter account	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*1100*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*500*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*800*KH	Consumption - Off Peak
MEA*AA*PRQ*800*KH*0*0*41	Total consumption, with begin/end readings

QTY*87*1000*KH	Consumption - On Peak
MEA*AA*PRQ*1000*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*700*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*700*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *200*КН	Starting Bank
MEA*AF*PRQ*200*KH***41	Starting Bank – Off Peak
QTY* <mark>QH</mark> *500*KH	Starting Bank
MEA*AF*PRQ*500*KH***42	Starting Bank – On Peak
QTY* <mark>QH</mark> *200*KH	Starting Bank
MEA*AF*PRQ*200*KH***43	Starting Bank – Intermediate Peak
QTY* 79 *200*KH	Self-Generation
MEA*AF*PRQ*200*KH***41	Self-Generation Applied – Off Peak
QTY* 79 *0*KH	Self-Generation
MEA*AF*PRQ*0*KH***42	Self-Generation Applied – On Peak
QTY* 79 *200*KH	Self-Generation
MEA*AF*PRQ*200*KH***43	Self-Generation Applied – Intermediate Peak
QTY* QE *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY* <mark>QE</mark> *1500*KH	Ending Bank
MEA*AF*PRQ*1500*KH***42	Ending Bank – On Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***43	Ending Bank – Intermediate Peak

BGE Scenario H - TOU net meter account. No starting banked amounts for any peak period. On Peak excess generation rolls forward. Consumption for Intermediate and Off Peak billed.

Current usage amounts in PM loop

Off Peak +800 kWh On Peak -500 kWh Int Peak +700 kWh

Starting banked amounts (QTY*QH)

Off Peak 0 kWh On Peak 0 kWh Int Peak 0 kWh

Self-generation applied from Starting Bank (QTY*79)

Off Peak 0 kWh On Peak 0 kWh Int Peak 0 kWh

Ending banked amounts (QTY*QE) Off Peak 0 kWh Off Peak 0 kWh On Peak -500 kWh Int Peak 0 kWh

Note: For a regular net meter account (non-NMA/ANEM), BGE will only apply generation from an individual peak period to consumption from the same peak period. There will be no cross-peak pollination as done with BGE ANEM TOU accounts. Excess generation will roll forward at the peak level.

TOU Net Meter account	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*1500*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*1000*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*800*KH	Consumption - Off Peak
MEA*AA*PRQ*800*KH*0*0*41	Total consumption, with begin/end readings
QTY*87*500*KH	Consumption - On Peak
MEA*AA*PRQ*500*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*700*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*700*KH*0*0*43	Total consumption, with begin/end readings

867 Monthly Usage (4010)

PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *0*KH	Starting Bank
MEA*AF*PRQ*0*KH***41	Starting Bank – Off Peak
QTY* <mark>QH</mark> *0*KH	Starting Bank
MEA*AF*PRQ*0*KH***42	Starting Bank – On Peak
QTY*QH*0*KH	Starting Bank
MEA*AF*PRQ*0*KH***43	Starting Bank – Intermediate Peak
QTY* 79 *0*KH	Self-Generation
MEA*AF*PRQ*0*KH***41	Self-Generation Applied – Off Peak
QTY* 79 *0*KH	Self-Generation
MEA*AF*PRQ*0*KH***42	Self-Generation Applied – On Peak
QTY* 79 *0*KH	Self-Generation
MEA*AF*PRQ*0*KH***43	Self-Generation Applied – Intermediate Peak
QTY* QE *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY*QE*500*KH	Ending Bank
MEA*AF*PRQ*500*KH***42	Ending Bank – On Peak
QTY*QE*0*KH	Ending Bank
MEA*AF*PRQ*0*KH***43	Ending Bank – Intermediate Peak

BGE Scenario I - TOU net meter account. On Peak excess generation rolls forward. Self-generation applied to Intermediate and Off Peak. Remaining consumption for Intermediate and Off Peak billed. Example for end of year net metering True-Up of excess generation. *Note this is like Scenario G, except the utility cashes out the customer for the year end excess generation.*

Current usage amounts in PM loop

Off Peak +800 kWh On Peak -1000 kWh Int Peak +700 kWh

Starting banked amounts (QTY*QH)

Off Peak -200 kWh On Peak -500 kWh Int Peak -200 kWh

Self-generation applied from Starting Bank (QTY*79)

Off Peak -200 kWh On Peak 0 kWh Int Peak -200 kWh

True-up of Excess Generation (QTY*QB)

Off Peak 0 kWh On Peak -1500 kWh Int Peak 0 kWh

Ending banked amounts (QTY*QE)

Off Peak 0 kWh On Peak 0 kWh Int Peak 0 kWh

Note 1: For a regular net meter account (non-NMA/ANEM), BGE will only apply generation from an individual peak period to consumption from the same peak period. There will be no cross-peak pollination as done with BGE ANEM TOU accounts. Excess generation will roll forward at the peak level and eventually be cashed out (true-up). Note 2: During True-Up for TOU, if one TOU peak contains excess generation passed in QTY*QB, all TOU peaks must be sent even when 0 kWh. For non-TOU, if there is no excess generation during the True-Up event, the QTY*QB will NOT be sent.

TOU Net Meter account	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*1100*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*500*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role

REF*IX*5.0	Number of dials or digits
QTY*QD*800*KH	Consumption - Off Peak
MEA*AA*PRQ*800*KH*0*0*41	Total consumption, with begin/end readings
QTY*87*1000*KH	Consumption - On Peak
MEA*AA*PRQ*1000*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*700*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*700*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *200*КН	Starting Bank
MEA*AF*PRQ*200*KH***41	Starting Bank – Off Peak
QTY* <mark>QH</mark> *500*KH	Starting Bank
MEA*AF*PRQ*500*KH***42	Starting Bank – On Peak
QTY* <mark>QH</mark> *200*KH	Starting Bank
MEA*AF*PRQ*200*KH***43	Starting Bank – Intermediate Peak
QTY* 79 *200*KH	Self-Generation
MEA*AF*PRQ*200*KH***41	Self-Generation Applied – Off Peak
QTY* 79 *0*KH	Self-Generation
MEA*AF*PRQ*0*KH***42	Self-Generation Applied – On Peak
QTY* 79 *200*KH	Self-Generation
MEA*AF*PRQ*200*KH***43	Self-Generation Applied – Intermediate Peak
QTY* QB *0*KH	True-Up
MEA*AF*PRQ*0*KH***41	True-Up – Off Peak
QTY*QB*1500*KH	True-Up
MEA*AF*PRQ*1500*KH***42	True-Up – On Peak
QTY*QB*0*KH	True-Up
MEA*AF*PRQ*0*KH***43	True-Up – Intermediate Peak
QTY* QE *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY* <mark>Q</mark> E*0*KH	Ending Bank
MEA*AF*PRQ*0*KH***42	Ending Bank – On Peak
QTY* <mark>Q</mark> E*0*KH	Ending Bank
MEA*AF*PRQ*0*KH***43	Ending Bank – Intermediate Peak

<u>Maryland (PHI/Potomac Edison)- Examples of regular Net Metered Accounts w/PTD*BJ loop (non-TOU/TOU)</u> (these do not include Aggregate Net Energy Metered (ANEM) accounts.

PHI/PE Scenario A - Non-TOU net meter account. Starting banked amount applied to current usage. Not enough banked generation to cover current usage. Remaining consumption amount billed and no ending banked amount.

Current consumption in PM loop +1800 kWh

Current generation in PM loop -1000 kWh

Starting banked amount (QTY*QH) -600 kWh

Self-generation applied from Starting Bank (QTY*79) -600 kWh

Ending banked amounts (QTY*QE) 0 kWh

Non TOU Net Meter account	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*200*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*800*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*1800*KH	Consumption
MEA*AA*PRQ*1800*KH*59245*61045*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits

QTY*87*1000*KH	Generation
MEA*AA*PRQ*1000*KH*42101*41101*51	Total Generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *600*KH	Starting Bank
MEA*AF*PRQ*600*KH***51	Starting Bank
QTY* 79 *600*KH	Self-Generation
MEA*AF*PRQ*600*KH***51	Self-Generation Applied
QTY* QE *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***51	Ending Bank

PHI/PE Scenario B - Non-TOU account. Meter exchange (old meter is non-net meter; new meter is net meter). No starting banked amount. Old meter reflects positive usage; new meter reflects net negative usage. Zero billed usage. Account has an ending banked amount. Meter exchange on 12/18/17.

OLD METER - Current consumption in PM loop +500 kWh

NEW METER - Current consumption in PM loop +500 kWh NEW METER - Current generation in PM loop -1500 kWh

Starting banked amount (QTY*QH) 0 kWh

Self-generation applied from Starting Bank (QTY*79) 0 kWh

Ending banked amounts (QTY*QE) -500 kWh

Non TOU Net Meter account	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20171208	Start period
DTM*151*20180110	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20171208	Start period
DTM*151*20180110	End period
QTY*87*500*KH	Calculated net KH
PTD*PM	Meter detail loop – OLD Meter 1
DTM*150*20171208	Start period
DTM*514*20171218	End period

REF*MG*1111111	Old Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*500*KH	Consumption
MEA*AA*PRQ*500*KH*59545*60045*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop – NEW Meter 2
DTM*514*20171218	Start period
DTM*151*20180110	End period
REF*MG*22222222	New Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*500*KH	Consumption
MEA*AA*PRQ*500*KH*59245*59745*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop – NEW Meter 2
DTM*514*20171218	Start period
DTM*151*20180110	End period
REF*MG*22222222	New Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*1500*KH	Generation
MEA*AA*PRQ*1500*KH*12122*10622*51	Total Generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20171208	Start period
DTM*151*20180110	End period
QTY* QH *0*KH	Starting Bank
MEA*AF*PRQ*0*KH***51	Starting Bank
QTY* 79 *0*KH	Self-Generation
MEA*AF*PRQ*0*KH***51	Self-Generation Applied from Starting Bank
QTY* QE *500*KH	Ending Bank
MEA*AF*PRQ*500*KH***51	Ending Bank

PHI/PE Scenario C - Non-TOU account. Meter exchange (old meter is net meter; new meter is net meter). Account has starting banked amount. Old meter reflects negative usage; new meter reflects negative usage. Zero billed usage. Account has ending banked amount. Meter exchange on 12/18/17.

OLD METER - Current consumption in PM loop +500 kWh **OLD METER - Current generation in PM loop** -1000 kWh

NEW METER - Current consumption in PM loop +1000 kWh **NEW METER - Current generation in PM loop** -2000 kWh

Starting banked amount (QTY*QH) 600 kWh

Self-generation applied from Starting Bank (QTY*79) 0 kWh

Ending banked amounts (QTY*QE) -2100 kWh

Non TOU Net Meter account	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20171208	Start period
DTM*151*20180110	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20171208	Start period
DTM*151*20180110	End period
QTY*87*1500*KH	Calculated net KH
PTD*PM	Meter detail loop – Meter 1
DTM*150*20171208	Start period
DTM*514*20171218	End period
REF*MG*1111111	Old Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*500*KH	Consumption
MEA*AA*PRQ*500*KH*59545*59045*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop – Meter 1
DTM*150*20171208	Start period
DTM*514*20171218	End period
REF*MG*1111111	Old Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*1000*KH	Generation

867 Monthly Usage (4010)

IG867MUv6-7.docxx

MEA*AA*PRQ*1000*KH*12122*11122*51	Total Generation, with begin/end readings
PTD*PM	Meter detail loop – Meter 2
DTM*514*20171218	Start period
DTM*151*20180110	End period
REF*MG*2222222	New Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*1000*KH	Consumption
MEA*AA*PRQ*1000*KH*32145*33145*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop – Meter 2
DTM*514*20171218	Start period
DTM*151*20180110	End period
REF*MG*22222222	New Meter Number
REF*JH*S	Meter Role
REF*JH*S REF*IX*5.0	Meter Role Number of dials or digits
REF*IX*5.0	Number of dials or digits
REF*IX*5.0 QTY*87*2000*KH	Number of dials or digits Generation
REF*IX*5.0 QTY*87*2000*KH MEA*AA*PRQ*2000*KH*32145*30145*51	Number of dials or digits Generation Total Generation, with begin/end readings
REF*IX*5.0 QTY*87*2000*KH MEA*AA*PRQ*2000*KH*32145*30145*51 PTD*BJ	Number of dials or digits Generation Total Generation, with begin/end readings Generation Transferred Loop
REF*IX*5.0 QTY*87*2000*KH MEA*AA*PRQ*2000*KH*32145*30145*51 PTD*BJ DTM*150*20171208	Number of dials or digits Generation Total Generation, with begin/end readings Generation Transferred Loop Start period
REF*IX*5.0 QTY*87*2000*KH MEA*AA*PRQ*2000*KH*32145*30145*51 PTD*BJ DTM*150*20171208 DTM*151*20180110	Number of dials or digits Generation Total Generation, with begin/end readings Generation Transferred Loop Start period End period
REF*IX*5.0 QTY*87*2000*KH MEA*AA*PRQ*2000*KH*32145*30145*51 PTD*BJ DTM*150*20171208 DTM*151*20180110 QTY*QH*600*KH	Number of dials or digits Generation Total Generation, with begin/end readings Generation Transferred Loop Start period End period Starting Bank
REF*IX*5.0 QTY*87*2000*KH MEA*AA*PRQ*2000*KH*32145*30145*51 PTD*BJ DTM*150*20171208 DTM*151*20180110 QTY*QH*600*KH MEA*AF*PRQ*600*KH***51	Number of dials or digits Generation Total Generation, with begin/end readings Generation Transferred Loop Start period End period Starting Bank Starting Bank
REF*IX*5.0 QTY*87*2000*KH MEA*AA*PRQ*2000*KH*32145*30145*51 PTD*BJ DTM*150*20171208 DTM*151*20180110 QTY*QH*600*KH MEA*AF*PRQ*600*KH***51 QTY*79*0*KH	Number of dials or digits Generation Total Generation, with begin/end readings Generation Transferred Loop Start period End period Starting Bank Starting Bank Self-Generation

PHI/PE Scenario D - Non-TOU account. Account has two meters. One meter is net metered; the other meter is <u>not</u> net metered. Account has starting banked amount. The net meter reflects negative usage. The other meter reflects positive usage. Current consumption of +500 is offset by current generation of -1000. Zero billed usage. No generation was applied from starting banked amount. Account has ending banked amount.

NET METER - Current consumption in PM loop +1000 kWh **NET METER - Current generation in PM loop** -2000 kWh

NON-NET METER - Current consumption in PM loop $+500 \ kWh$

Starting banked amount (QTY*QH) 600 kWh

Self-generation applied from Starting Bank (QTY*79) 0 kWh

Ending banked amounts (QTY*QE) -1100 kWh

Non TOU Net Meter account	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20171208	Start period
DTM*151*20180110	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20171208	Start period
DTM*151*20180110	End period
QTY*87*500*KH	Calculated net KH
PTD*PM	Meter detail loop – Meter 1 (Net Meter)
DTM*150*20171208	Start period
DTM*151*20180110	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*1000*KH	Consumption
MEA*AA*PRQ*1000*KH*59545*60545*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop – Meter 1 (Net Meter)
DTM*150*20171208	Start period
DTM*151*20180110	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*2000*KH	Generation

MEA*AA*PRQ*2000*KH*59545*57545*51	Total Generation, with begin/end readings
PTD*PM	Meter detail loop – Meter 2 (Non-net Meter)
DTM*150*20171208	Start period
DTM*151*20180110	End period
REF*MG*2222222	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*500*KH	Consumption
MEA*AA*PRQ*500*KH*32145*32645*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20171208	Start period
DTM*151*20180110	End period
QTY* QH *600*KH	Starting Bank
MEA*AF*PRQ*600*KH***51	Starting Bank
QTY* 79 *0*KH	Self-Generation
MEA*AF*PRQ*0*KH***51	Self-Generation Applied from Starting Bank
QTY* QE *1100*KH	Ending Bank
MEA*AF*PRQ*1100*KH***51	Ending Bank

PHI/PE Scenario E - TOU net meter account with consumption for current month and starting/ending banked amounts. Zero usage billed.

Current consumption in PM loop

Off Peak +1800 kWh On Peak +2400 kWh Int Peak +1700 kWh

Current generation in PM loop

Off Peak -800 kWh On Peak -1000 kWh Int Peak -500 kWh

Starting banked amounts (QTY*QH)

Off Peak -2000 kWh On Peak -3000 kWh Int Peak -1500 kWh

Self-generation applied from Starting Bank (QTY*79)

Off Peak –1000 kWh On Peak –1400 kWh Int Peak –1200 kWh

Ending banked amounts (QTY*QE)

Off Peak -1000 kWh On Peak -1600 kWh Int Peak -300 kWh

Note: For a regular net meter account (non-NMA/ANEM), the utility will only apply generation from an individual peak period to consumption from the same peak period. Excess generation will roll forward at the peak level.

TOU Net Meter account	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Monthly officer RTT Metered services Summary loop
DTM*150*20160405	Start period
DTM*150*20160504	End period
	Calculated net KH
QTY*QD*3600*KH PTD*PM	
	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*1800*KH	Consumption - Off Peak
MEA*AA*PRQ*1800*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*2400*KH	Consumption - On Peak
MEA*AA*PRQ*2400*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*1700*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*1700*KH*0*0*43	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*800*KH	Generation - Off Peak
MEA*AA*PRQ*800*KH*0*0*41	Total Generation, with begin/end readings
QTY*87*1000*KH	Generation - On Peak
MEA*AA*PRQ*1000*KH*0*0*42	Total Generation, with begin/end readings
QTY*87*500*KH	Generation - Intermediate Peak
MEA*AA*PRQ*500*KH*0*0*43	Total Generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
	İ.
QTY* QH *2000*KH	Starting Bank
Q1Y*QH*2000*KH MEA*AF*PRQ*2000*KH***41	Starting Bank – Off Peak

QTY* QH *1500*KH	Starting Bank
MEA*AF*PRQ*1500*KH***43	Starting Bank – Intermediate Peak
QTY* 79 *1000*KH	Self-Generation
MEA*AF*PRQ*1000*KH***41	Self-Generation Applied – Off Peak
QTY* 79 *1400*KH	Self-Generation
MEA*AF*PRQ*1400*KH***42	Self-Generation Applied – On Peak
QTY* 79 *1200*KH	Self-Generation
MEA*AF*PRQ*1200*KH***43	Self-Generation Applied – Intermediate Peak
QTY* QE *1000*KH	Ending Bank
MEA*AF*PRQ*1000*KH***41	Ending Bank – Off Peak
QTY* QE *1600*KH	Ending Bank
MEA*AF*PRQ*1600*KH***42	Ending Bank – On Peak
QTY* QE *300*KH	Ending Bank
MEA*AF*PRQ*300*KH***43	Ending Bank – Intermediate Peak

PHI/PE Scenario F - TOU net meter account. On and Intermediate Peak excess generation rolls forward; Off Peak consumption billed. No self-application.

Current consumption in PM loop

Off Peak +1300 kWh On Peak +200 kWh Int Peak +100 kWh

Current generation in PM loop

Off Peak -800 kWh On Peak -1200 kWh Int Peak -900 kWh

Starting banked amounts (QTY*QH)

Off Peak = 0 kWh On Peak -2000 kWh Int Peak -1000 kWh

Self-generation applied from Starting Bank (QTY*79)

Off Peak 0 kWh On Peak 0 kWh Int Peak 0 kWh **Ending banked amounts (QTY*QE)** Off Peak = 0 kWh On Peak -3000 kWh Int Peak -1800 kWh

Note: For a regular net meter account, the utility will only apply generation from an individual peak period to consumption from the same peak period. Excess generation will roll forward at the peak level. **Proposed EDI Transaction**

TOU Net Meter account	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period

PTD*SUMetered services Summary loopDTM*150*20160405Start periodDTM*151*20160504End periodQTY*87*1300*KHCalculated net KHPTD*PMMeter detail loopDTM*151*20160504End periodREF*0G*1111111Meter NumberREF*1M*3Meter RoleREF*1M*5.0Number of dials or digitsQTY*QD*1300*KHConsumption - Off PeakMEA*AA*PRQ*1300*KHConsumption - Off PeakMEA*AA*PRQ*1300*KHConsumption - On PeakMEA*AA*PRQ*100*KH*0*0*41Total consumption, with begin/end readingsQTY*QD*200*KHConsumption - Intermediate PeakMEA*AA*PRQ*100*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*IM*SMeter RoleREF*IM*SMeter RoleREF*IM*SMeter RoleREF*IM*SGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*100*KHTotal Generation, with begin/end readingsQTY*87*900*KHGeneration - Off PeakMEA*AA*PRQ*100*KH*0*0*41Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Off PeakMEA*AA*PRQ*100*KH*0*0*43Total Generation, with begin/end readingsQTY*87*900*KHGeneration Transferred LoopDTM*150*20160405Start periodDTM*150*20160405Start period <trr>QTY*87*900*KH<!--</th--><th>QTY*D1*500*KH</th><th>Monthly billed KH</th></trr>	QTY*D1*500*KH	Monthly billed KH
DTM*151*20160504End periodQTY*87*1300*KHCalculated net KHPTD*PMMeter detial loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter NumberREF*JH*AMeter RoleREF*JD*5.0Number of dials or digitsQTY*QD*1300*KHConsumption - Off PeakMEA*AA*PRQ*1300*KH*0*0*41Total consumption, with begin/end readingsQTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*100*KHConsumption - Intermediate PeakMEA*AA*PRQ*100*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodREF*IJF*S0Number of dials or digitsREF*IJF*S0Number of dials or digitsQTY*87*800*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*41Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Off PeakMEA*AA*PRQ*1200*KH*0*0*41Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Off PeakMEA*AA*PRQ*1200*KH*0*0*41Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Off PeakMEA*AA*PRQ*1000*KH*0*0*41Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*1000*KH*0*0*43Total Generation, with begin/end readingsQTY*87*900*KHGeneration Transferred LoopDTM*151*20160504End period <td< td=""><td>PTD*SU</td><td>Metered services Summary loop</td></td<>	PTD*SU	Metered services Summary loop
QTY*87*1300*KHCalculated net KHPTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter NumberREF*JH*AMeter RoleREF*JD*5.0Number of dials or digitsQTY*QD*1300*KHConsumption - Off PeakMEA*AA*PRQ*1300*KH*0*0*41Total consumption, with begin/end readingsQTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*100*KHConsumption - Intermediate PeakMEA*AA*PRQ*100*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*SMeter RoleREF*S0.0Number of dials or digitsQTY*87*800*KHGeneration - On PeakMEA*AA*PRQ*100*KH*0*0*41Total Generation, with begin/end readingsQTY*87*800*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*41Total Generation, with begin/end readingsQTY*87*900*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*41Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*1000*KH*0*0*41Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*1000*KH*0*0*41Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*151*20160504End period	DTM*150*20160405	Start period
PTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*111111Meter NumberREF*JH*AMeter RoleREF*JH*ANumber of dials or digitsQTY*QD*1300*KHConsumption - Off PeakMEA*AA*PRQ*1300*KH*0*0*41Total consumption, with begin/end readingsQTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*100*KHConsumption, with begin/end readingsQTY*QD*100*KHConsumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodREF*IX*5.0Number of dials or digitsREF*IX*5.0Number of dials or digitsQTY*RP*800*KHGeneration - On PeakMEA*AA*PRQ*800*KHGeneration - On PeakMEA*AA*PRQ*800*KHGeneration - On PeakMEA*AA*PRQ*800*KHGeneration - On PeakMEA*AA*PRQ*800*KHGeneration - On PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*00*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*43Total Generation, with begin/end readingsQTY*87*00*KHGeneration - Intermediate PeakMEA*AA*PRQ*1200*KH*0*0*43Total Generation, with begin/end readingsQTY*87*00*KHGeneration Transferred LoopDTM*151*20160504End periodQTY*0fH*00*KHStarti	DTM*151*20160504	End period
DTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter NumberREF*MG*1111111Meter NumberREF*JH*AMeter RoleREF*JS.0Number of dials or digitsQTY*QD*1300*KHConsumption - Off PeakMEA*AA*PRQ*1300*KH*0*0*41Total consumption, with begin/end readingsQTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*100*KHConsumption - Intermediate PeakMEA*AA*PRQ*100*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodREF*JH*SMeter NumberREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*SGeneration - Off PeakMEA*AA*PRQ*100*KH*0*0*41Total Generation, with begin/end readingsQTY*87*00*KHGeneration - Off PeakMEA*AA*PRQ*120*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - Off PeakMEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*00*KHGeneration - Off PeakMEA*AA*PRQ*1200*KH*0*0*43Total Generation, with begin/end readingsQTY*87*00*KHGeneration - Intermediate PeakMEA*AA*PRQ*1200*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*151*20160504End periodQTY*QH*040*KHStarting BankMEA*AF*PRQ*00	QTY*87*1300*KH	Calculated net KH
DTM*151*20160504End periodREF*MG*1111111Meter NumberREF*IL*3.Meter RoleREF*IL*5.0Number of dials or digitsQTY*QD*1300*KHConsumption - Off PeakMEA*AA*PRQ*1300*KH*0*0*41Total consumption, with begin/end readingsQTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*100*KHConsumption - Intermediate PeakMEA*AA*PRQ*100*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*IX*5.0NumberREF*IX*5.0Number of dials or digitsQTY*87800*KHGeneration - Onf PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - Onf PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - Onf PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodDTM*150*20160405Start ing BankMEA*AF*PRQ*00*KHStarting BankMEA*AF*PRQ*00*KHStarting BankMEA*AF*PRQ*00*KHStarting BankMEA*AF*PRQ*00*KHStarting BankMEA*AF*PRQ*000*KHStarting BankMEA	PTD*PM	Meter detail loop
REF*MG*1111111Meter NumberREF*IH*AMeter RoleREF*IL*5.0Number of dials or digitsQTY*QD*1300*KHConsumption - Off PeakMEA*AA*PRQ*1300*KH*0*0*41Total consumption, with begin/end readingsQTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*100*KHConsumption - Intermediate PeakMEA*AA*PRQ*100*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodREF*IMG*1111111Meter NumberREF*IM*S.0Number of dials or digitsQTY*80*KHGeneration - Off PeakMEA*AA*PRQ*80*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - Off PeakMEA*AA*PRQ*1200*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*41Total Generation, with begin/end readingsQTY*87*900*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*43Total Generation, with begin/end readingsQTY*87*900*KHGeneration Transferred LoopDTM*150*20160405Start periodDTM*150*20160405Start genidQTY*QH*000*KHStarting BankMEA*AA*PRQ*000*KH*0*0*43Starting BankMEA*AA*PRQ*000*KH*0*0*43Starting BankQTY*QH*000*KHStarting BankMEA*AA*PRQ*000*KHStarting BankMEA*AF*PRQ*000*KHStarting BankMEA*AF*PRQ*000*KHStarting Bank<	DTM*150*20160405	Start period
REF*JH*AMeter RoleREF*JX*5.0Number of dials or digitsQTY*QD*1300*KHConsumption - Off PeakMEA*AA*PRQ*1300*KH*0*0*41Total consumption, with begin/end readingsQTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*100*KHConsumption - Intermediate PeakMEA*AA*PRQ*100*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodREF*IM*31Meter NumberREF*IM*5.0Number of dials or digitsQTY*87*5.0Number of dials or digitsQTY*87*5.0Number of dials or digitsQTY*87*200*KHGeneration - On PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*200*KHGeneration - On PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*15*20160405Start periodQTY*QH*0*KHStarting BankMEA*AF*PRQ*00*KH***41Starting BankMEA*AF*PRQ*00*KH***41Starting BankMEA*AF*PRQ*00*KH***41Starting BankMEA*AF*PRQ*000*KH***43Starting BankMEA*AF*PRQ*000*KH***43Starting BankMEA*AF*PRQ*000*KH*	DTM*151*20160504	End period
REF*IX*5.0Number of dials or digitsQTY*QD*1300*KHConsumption - Off PeakMEA*AA*PRQ*1300*KH*0*0*41Total consumption, with begin/end readingsQTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*100*KHConsumption - Intermediate PeakMEA*AA*PRQ*100*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter NumberREF*IH*SMeter RoleREF*IH*SGeneration - Off PeakQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*1200*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*1200*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration - Intermediate PeakMEA*AA*PRQ*900*KHEnd periodQTY*QH*0005DStart periodDTM*150*20160405Start periodDTM*151*20160504End periodQTY*QH*000*KHStarting BankMEA*AF*PRQ*000*KH**41Starting BankMEA*AF*PRQ*000*KH**42Starting BankMEA*AF*PRQ*000*KH**43Starting BankQTY*QH*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43	REF*MG*1111111	Meter Number
QTY*QD*1300*KHConsumption - Of PeakMEA*AA*PRQ*1300*KH*0*0*41Total consumption, with begin/end readingsQTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*100*KHConsumption - Intermediate PeakMEA*AA*PRQ*100*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter NumberREF*JH*SMeter RoleREF*IN*S.0Number of dials or digitsQTY*87*800*KHGeneration - On PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*1200*KH*0*0*43Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*15*20160405Start periodDTM*15*20160405Start periodQTY*QH*00*KHStarting BankMEA*AF*PRQ*200*KH***41Starting BankMEA*AF*PRQ*200*KH***41Starting BankMEA*AF*PRQ*00*KHStarting BankMEA*AF*PRQ*100*KHStarting BankMEA*AF*PRQ*100*KHStarting BankMEA*AF*PRQ*100*KHStarting BankMEA*AF*PRQ*100*KH***43Start	REF*JH*A	Meter Role
MEA*AA*PRQ*1300*KH*0*0*41Total consumption, with begin/end readingsQTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*100*KHConsumption - Intermediate PeakMEA*AA*PRQ*100*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodDTM*150*20160504End periodREF*MG*111111Meter NumberREF*IM*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - On PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation - On PeakMEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*43Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsQTY*87*900*KHGeneration Transferred LoopDTM*150*20160405Start periodDTM*151*20160504End periodQTY*QH*00%KHStarting BankMEA*AF*PRQ*00%KH***41Starting BankMEA*AF*PRQ*00%KH***42Starting BankMEA*AF*PRQ*100%KH***43Starting BankMEA*AF*PRQ*100%KHStarting BankMEA*AF*PRQ*100%KHStarting BankMEA*AF*PRQ*100%KH***43Starting BankMEA*AF*PRQ*100%KH***43Starting BankMEA*AF*PRQ*100%KHStarting BankMEA*AF*PRQ*100%KH***43Starting Bank	REF*IX*5.0	Number of dials or digits
QTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*100*KHConsumption - Intermediate PeakMEA*AA*PRQ*100*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodREF*JH*SMeter NumberREF*JH*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*900*KHGeneration - On PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodDTM*151*20160504End periodQTY*QH*0*KHStarting BankMEA*AF*PRQ*000*KH***41Starting BankMEA*AF*PRQ*000*KH***42Starting BankMEA*AF*PRQ*000*KH***43Starting BankMEA*AF*PRQ*000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting Bank - On PeakQTY*QH*1000*KHStarting Bank - On PeakQTY*QH*1000*KH***43Starting Bank - Intermediate PeakQTY*0P*0*KHStarting Bank - Intermediate PeakMEA*AF*PRQ*1000*KH***43Starting Bank - Intermediate Peak <tr< td=""><td>QTY*QD*1300*KH</td><td>Consumption - Off Peak</td></tr<>	QTY*QD*1300*KH	Consumption - Off Peak
MEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*100*KHConsumption - Intermediate PeakMEA*AA*PRQ*100*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter NumberREF*JH*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*151*20160504End periodQTY*QH*00*KHStart periodDTM*151*20160504Start periodDTM*151*20160504Start periodQTY*QH*00*KHStarting BankMEA*AF*PRQ*00*KH***41Starting BankMEA*AF*PRQ*00*KH***42Starting BankQTY*QH*000*KHStarting Bank - On PeakQTY*QH*1000*KHStarting Bank - Intermediate PeakQTY*0P*0*KHStarting Bank - Intermediate PeakQTY*0P*0*KHStarting Bank - Intermediate Peak	MEA*AA*PRQ*1300*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*100*KHConsumption - Intermediate PeakMEA*AA*PRQ*100*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter NumberREF*JH*SMeter RoleREF*JH*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*151*20160504End periodQTY*QH*0*KHStarting BankMEA*AA*PRQ*000*KH***41Starting BankMEA*AA*PRQ*000*KH***42Starting BankMEA*AA*PRQ*000*KH***43Starting BankMEA*AF*PRQ*000*KHStarting BankMEA*AF*PRQ*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KHStarting Bank	QTY*QD*200*KH	Consumption - On Peak
MEA*AA*PRQ*100*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter NumberREF*JH*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodQTY*QH*0200*KHStarting BankMEA*AF*PRQ*00*KH*41Starting BankMEA*AF*PRQ*000*KH**42Starting BankMEA*AF*PRQ*000*KHStarting BankMEA*AF*PRQ*000*KH**42Starting BankMEA*AF*PRQ*000*KHStarting BankMEA*AF*PRQ*000*KHStarting BankMEA*AF*PRQ*000*KHStarting BankMEA*AF*PRQ*000*KHStarting BankMEA*AF*PRQ*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*	MEA*AA*PRQ*200*KH*0*0*42	Total consumption, with begin/end readings
PTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter NumberREF*MG*1111111Meter RoleREF*JH*SMeter RoleREF*JR*S.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodDTM*151*20160504End periodQTY*QH*0*KHStarting BankMEA*AF*PRQ*000*KH**41Starting BankMEA*AF*PRQ*000*KHStarting BankMEA*AF*PRQ*000*KHStarting BankMEA*AF*PRQ*000*KHStarting BankMEA*AF*PRQ*1000*KH***42Starting BankMEA*AF*PRQ*1000*KHStarting BankMEA*AF*PRQ*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting Bank – Intermediate PeakQTY*QH*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting Bank – Intermediate PeakQTY*0P*0*KHStarting Bank – Intermediate PeakQTY*0P*0*KHStarting Bank – Intermediate Peak	QTY*QD*100*KH	Consumption - Intermediate Peak
DTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter NumberREF*MG*1111111Meter NumberREF*JH*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodDTM*151*20160504End periodQTY*QH*0*KHStarting BankMEA*AF*PRQ*00*KH**41Starting BankMEA*AF*PRQ*2000*KHStarting BankMEA*AF*PRQ*2000*KHStarting BankMEA*AF*PRQ*2000*KH**42Starting BankMEA*AF*PRQ*1000*KH**43Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting Bank – Intermediate PeakQTY*QP*0*VHStarting Bank – Intermediate PeakQTY*QP*0*VHStarting Bank – Intermediate Peak	MEA*AA*PRQ*100*KH*0*0*43	Total consumption, with begin/end readings
DTM*151*20160504End periodREF*MG*1111111Meter NumberREF*MG*1111111Meter RoleREF*JH*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodDTM*151*20160504End periodQTY*QH*0*KHStarting BankMEA*AF*PRQ*00*KH**41Starting BankMEA*AF*PRQ*000*KH**42Starting BankMEA*AF*PRQ*000*KH***43Starting BankMEA*AF*PRQ*1000*KHStarting BankMEA*AF*PRQ*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting Bank – Intermediate PeakQTY*79*0*KHSelf-Generation	PTD*PM	Meter detail loop
REF*MG*1111111Meter NumberREF*JH*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodDTM*151*20160504End periodQTY*QH*0*KHStarting BankMEA*AF*PRQ*000*KH***41Starting BankMEA*AF*PRQ*2000*KH***42Starting BankQTY*QH*000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting BankQTY*QH*1000*KHStarting BankQTY*QH*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***44Starting BankMEA*AF*PRQ*1000*KH***43Starting Bank – Intermediate PeakQTY*90*KHStarting Bank	DTM*150*20160405	Start period
REF*JH*SMeter RoleREF*JH*SMumber of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodQTY*QH*0*KHStarting BankMEA*AF*PRQ*00*KH***41Starting BankMEA*AF*PRQ*00*KH***42Starting BankQTY*QH*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***44Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***44Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***44Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***44Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***44Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***44Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***44Starting BankMEA*AF*PRQ*1000*KHStarting Bank <td>DTM*151*20160504</td> <td>End period</td>	DTM*151*20160504	End period
REF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodQTY*QH*0*KHStarting BankMEA*AF*PRQ*00*KH***41Starting BankMEA*AF*PRQ*00*KH***42Starting BankMEA*AF*PRQ*000*KH***43Starting Bank - On PeakQTY*QH*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH<	REF*MG*1111111	Meter Number
QTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodDTM*151*20160504End periodQTY*QH*0*KHStarting BankMEA*AF*PRQ*00*KH***41Starting BankMEA*AF*PRQ*000*KH***42Starting BankQTY*QH*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting BankQTY*QH*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***44Starting BankMEA*AF*PRQ*1000*KHStarting BankMEA*AF*PRQ*1000*KHStarting BankMEA*AF*PRQ*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***44Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***44Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***43Starting BankMEA*AF*PRQ*1000*KH***44Starting BankMEA*AF*PRQ*1000*KH***43Starting Bank	REF*JH*S	Meter Role
NEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readingsQTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodDTM*151*20160504End periodQTY*QH*0*KHStarting BankMEA*AF*PRQ*00*KH**41Starting Bank - Off PeakQTY*QH*2000*KHStarting BankMEA*AF*PRQ*1000*KHStarting BankMEA*AF*PRQ*1000*KHStarting BankMEA*AF*PRQ*1000*KHStarting Bank - On PeakQTY*QH*1000*KHStarting BankMEA*AF*PRQ*1000*KHStarting BankMEA*AF*PRQ*1000*KHStarting Bank - On PeakQTY*QH*000*KHStarting Bank - On PeakQTY*QH*1000*KHStarting Bank - On PeakQTY*QH*000*KHStarting Bank - On PeakMEA*AF*PRQ*1000*KH**43Starting Bank - Intermediate PeakQTY*79*0*KHStarting Bank - Intermediate PeakQTY*79*0*KHStarting Bank - Intermediate Peak	REF*IX*5.0	Number of dials or digits
QTY*87*1200*KHGeneration - On PeakMEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodDTM*151*20160504End periodQTY*QH*0*KHStarting BankMEA*AF*PRQ*0*KH***41Starting Bank - Off PeakQTY*QH*2000*KH***42Starting Bank - On PeakQTY*QH*1000*KHStarting Bank - On PeakQTY*QH*1000*KHStarting Bank - Intermediate PeakQTY*79*0*KHStarting Bank - Intermediate Peak	QTY*87*800*KH	Generation - Off Peak
NEA*AA*PRQ*1200*KH*0*0*42Total Generation, with begin/end readingsQTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodDTM*151*20160504End periodQTY*QH*0*KHStarting BankMEA*AF*PRQ*00*KH***41Starting Bank - Off PeakQTY*QH*2000*KHStarting BankMEA*AF*PRQ*2000*KH***42Starting Bank - On PeakQTY*QH*1000*KHStarting Bank - Intermediate PeakQTY*QH*1000*KHStarting Bank - Intermediate PeakQTY*79*0*KHStarting Bank - Intermediate Peak	MEA*AA*PRQ*800*KH*0*0*41	Total Generation, with begin/end readings
QTY*87*900*KHGeneration - Intermediate PeakMEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodDTM*151*20160504End periodQTY*QH*0*KHStarting BankMEA*AF*PRQ*0*KH***41Starting Bank – Off PeakQTY*QH*2000*KHStarting BankMEA*AF*PRQ*2000*KH***42Starting Bank – On PeakQTY*QH*1000*KHStarting Bank – On PeakQTY*QH*1000*KHStarting Bank – Intermediate PeakQTY*7P*0*KHStarting Bank – Intermediate Peak	QTY*87*1200*KH	Generation - On Peak
NEA*AA*PRQ*900*KH*0*0*43Total Generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodDTM*151*20160504End periodQTY*QH*0*KHStarting BankMEA*AF*PRQ*0*KH***41Starting Bank – Off PeakQTY*QH*2000*KHStarting Bank – On PeakMEA*AF*PRQ*2000*KH***42Starting Bank – On PeakQTY*QH*1000*KHStarting Bank – On PeakQTY*QH*1000*KHStarting Bank – Intermediate PeakMEA*AF*PRQ*1000*KH***43Starting Bank – Intermediate Peak	MEA*AA*PRQ*1200*KH*0*0*42	Total Generation, with begin/end readings
PTD*BJGeneration Transferred LoopDTM*150*20160405Start periodDTM*151*20160504End periodQTY*QH*0*KHStarting BankMEA*AF*PRQ*0*KH***41Starting Bank – Off PeakQTY*QH*2000*KHStarting BankMEA*AF*PRQ*2000*KH***42Starting Bank – On PeakQTY*QH*1000*KHStarting Bank – On PeakQTY*QH*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting Bank – Intermediate PeakQTY*79*0*KHStarting Bank – Intermediate Peak	QTY*87*900*KH	Generation - Intermediate Peak
DTM*150*20160405Start periodDTM*151*20160504End periodQTY*QH*0*KHStarting BankMEA*AF*PRQ*0*KH***41Starting Bank – Off PeakQTY*QH*2000*KHStarting Bank – Off PeakMEA*AF*PRQ*2000*KH***42Starting Bank – On PeakQTY*QH*1000*KHStarting Bank – On PeakQTY*QH*1000*KHStarting Bank – On PeakQTY*QH*1000*KHStarting Bank – Intermediate PeakMEA*AF*PRQ*1000*KH***43Starting Bank – Intermediate PeakQTY*79*0*KHSelf-Generation	MEA*AA*PRQ*900*KH*0*0*43	Total Generation, with begin/end readings
DTM*151*20160504End periodQTY*QH*0*KHStarting BankMEA*AF*PRQ*00*KH***41Starting Bank – Off PeakQTY*QH*2000*KHStarting BankMEA*AF*PRQ*2000*KH***42Starting Bank – On PeakQTY*QH*1000*KHStarting Bank – On PeakQTY*QH*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting Bank – Intermediate PeakQTY*79*0*KHSelf-Generation	PTD*BJ	Generation Transferred Loop
QTY*QH*0*KHStarting BankMEA*AF*PRQ*0*KH***41Starting Bank – Off PeakQTY*QH*2000*KHStarting Bank – Off PeakMEA*AF*PRQ*2000*KH***42Starting Bank – On PeakQTY*QH*1000*KHStarting Bank – On PeakMEA*AF*PRQ*1000*KH***43Starting Bank – Intermediate PeakQTY*79*0*KHSelf-Generation	DTM*150*20160405	Start period
MEA*AF*PRQ*0*KH***41Starting Bank – Off PeakQTY*QH*2000*KHStarting BankMEA*AF*PRQ*2000*KH***42Starting Bank – On PeakQTY*QH*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting Bank – Intermediate PeakQTY*79*0*KHSelf-Generation	DTM*151*20160504	End period
QTY*QH*2000*KHStarting BankMEA*AF*PRQ*2000*KH***42Starting Bank – On PeakQTY*QH*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting Bank – Intermediate PeakQTY*79*0*KHSelf-Generation	QTY* QH *0*KH	Starting Bank
MEA*AF*PRQ*2000*KH***42 Starting Bank – On Peak QTY*QH*1000*KH Starting Bank MEA*AF*PRQ*1000*KH***43 Starting Bank – Intermediate Peak QTY*79*0*KH Self-Generation	MEA*AF*PRQ*0*KH***41	Starting Bank – Off Peak
QTY*QH*1000*KHStarting BankMEA*AF*PRQ*1000*KH***43Starting Bank – Intermediate PeakQTY*79*0*KHSelf-Generation	QTY*QH*2000*KH	Starting Bank
MEA*AF*PRQ*1000*KH***43 Starting Bank – Intermediate Peak QTY* 79 *0*KH Self-Generation	MEA*AF*PRQ*2000*KH***42	Starting Bank – On Peak
QTY*79*0*KH Self-Generation	QTY*QH*1000*KH	Starting Bank
	MEA*AF*PRQ*1000*KH***43	Starting Bank – Intermediate Peak
MEA*AF*PRQ*0*KH***41 Self-Generation Applied – Off Peak	QTY* 79 *0*KH	Self-Generation
	MEA*AF*PRQ*0*KH***41	Self-Generation Applied – Off Peak

QTY* 79 *0*KH	Self-Generation
MEA*AF*PRQ*0*KH***42	Self-Generation Applied – On Peak
QTY* 79 *0*KH	Self-Generation
MEA*AF*PRQ*0*KH***43	Self-Generation Applied – Intermediate Peak
QTY* QE *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY* QE *3000*KH	Ending Bank
MEA*AF*PRQ*3000*KH***42	Ending Bank – On Peak
QTY* QE *1800*KH	Ending Bank
MEA*AF*PRQ*1800*KH***43	Ending Bank – Intermediate Peak

PHI/PE Scenario G - TOU net meter account. On Peak excess generation rolls forward. Self-generation applied to Intermediate and Off Peak. Remaining consumption for Intermediate and Off Peak billed.

Current consumption in PM loop

Off Peak +1600 kWh On Peak +200 kWh Int Peak +1550 kWh

Current generation in PM loop

Off Peak -800 kWh On Peak -1200 kWh Int Peak -850 kWh

Starting banked amounts (QTY*QH)

Off Peak -200 kWh On Peak -500 kWh Int Peak -200 kWh

Self-generation applied from Starting Bank (QTY*79)

Off Peak -200 kWh On Peak = 0 kWh Int Peak -200 kWh

Ending banked amounts (QTY*QE)

Off Peak = 0 kWhOn Peak -1500 kWh Int Peak = 0 kWh

Note: For a regular net meter account, the utility will only apply generation from an individual peak period to consumption from the same peak period. Excess generation will roll forward at the peak level.

TOU Net Meter account	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*1100*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period

PTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter NumberREF*JH*AMeter RoleREF*IX*5.0Number of dials or digitsQTY*QD*1600*KHConsumption - Off PeakMEA*AA*PRQ*1600*KH*0*0*41Total consumption, with begin/end readingsQTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*1550*KHConsumption - Intermediate PeakMEA*AA*PRQ*1550*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*151*20160405Start periodREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readings
DTM*151*20160504End periodREF*MG*1111111Meter NumberREF*JH*AMeter RoleREF*JH*ANumber of dials or digitsQTY*QD*1600*KHConsumption - Off PeakMEA*AA*PRQ*1600*KH*0*0*41Total consumption, with begin/end readingsQTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*1550*KHConsumption - Intermediate PeakMEA*AA*PRQ*1550*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*151*20160504End periodREF*JH*SMeter RoleREF*JH*SMeter RoleREF*JH*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*00*041Total Generation, with begin/end readings
REF*MG*1111111Meter NumberREF*JH*AMeter RoleREF*IX*5.0Number of dials or digitsQTY*QD*1600*KHConsumption - Off PeakMEA*AA*PRQ*1600*KH*0*0*41Total consumption, with begin/end readingsQTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*1550*KHConsumption - Intermediate PeakMEA*AA*PRQ*1550*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodREF*MG*1111111Meter NumberREF*IM*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readings
REF*JH*AMeter RoleREF*IX*5.0Number of dials or digitsQTY*QD*1600*KHConsumption - Off PeakMEA*AA*PRQ*1600*KH*0*0*41Total consumption, with begin/end readingsQTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*1550*KHConsumption - Intermediate PeakMEA*AA*PRQ*1550*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodREF*MG*1111111Meter NumberREF*JH*SMeter RoleREF*JI*S.0Number of dials or digitsQTY*87*800*KHGeneration - Off Peak
REF*IX*5.0Number of dials or digitsQTY*QD*1600*KHConsumption - Off PeakMEA*AA*PRQ*1600*KH*0*0*41Total consumption, with begin/end readingsQTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*1550*KHConsumption - Intermediate PeakMEA*AA*PRQ*1550*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter RoleREF*JH*SMeter RoleQTY*87*800*KHGeneration, with begin/end readings
QTY*QD*1600*KHConsumption - Off PeakMEA*AA*PRQ*1600*KH*0*0*41Total consumption, with begin/end readingsQTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*1550*KHConsumption - Intermediate PeakMEA*AA*PRQ*1550*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter RoleREF*JH*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHTotal Generation, with begin/end readings
MEA*AA*PRQ*1600*KH*0*0*41Total consumption, with begin/end readingsQTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*1550*KHConsumption - Intermediate PeakMEA*AA*PRQ*1550*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter NumberREF*JH*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration, with begin/end readings
QTY*QD*200*KHConsumption - On PeakMEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*1550*KHConsumption - Intermediate PeakMEA*AA*PRQ*1550*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter RoleREF*JH*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*00*41Total Generation, with begin/end readings
MEA*AA*PRQ*200*KH*0*0*42Total consumption, with begin/end readingsQTY*QD*1550*KHConsumption - Intermediate PeakMEA*AA*PRQ*1550*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter RoleREF*JH*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readings
QTY*QD*1550*KHConsumption - Intermediate PeakMEA*AA*PRQ*1550*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter NumberREF*JH*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readings
MEA*AA*PRQ*1550*KH*0*0*43Total consumption, with begin/end readingsPTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter NumberREF*JH*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readings
PTD*PMMeter detail loopDTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter NumberREF*JH*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*00*41Total Generation, with begin/end readings
DTM*150*20160405Start periodDTM*151*20160504End periodREF*MG*1111111Meter NumberREF*JH*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readings
DTM*151*20160504End periodREF*MG*1111111Meter NumberREF*JH*SMeter RoleREF*IX*5.0Number of dials or digitsQTY*87*800*KHGeneration - Off PeakMEA*AA*PRQ*800*KH*0*0*41Total Generation, with begin/end readings
REF*MG*1111111 Meter Number REF*JH*S Meter Role REF*IX*5.0 Number of dials or digits QTY*87*800*KH Generation - Off Peak MEA*AA*PRQ*800*KH*00*41 Total Generation, with begin/end readings
REF*JH*S Meter Role REF*IX*5.0 Number of dials or digits QTY*87*800*KH Generation - Off Peak MEA*AA*PRQ*800*KH*0*0*41 Total Generation, with begin/end readings
REF*IX*5.0 Number of dials or digits QTY*87*800*KH Generation - Off Peak MEA*AA*PRQ*800*KH*0*0*41 Total Generation, with begin/end readings
QTY*87*800*KH Generation - Off Peak MEA*AA*PRQ*800*KH*0*0*41 Total Generation, with begin/end readings
MEA*AA*PRQ*800*KH*0*0*41 Total Generation, with begin/end readings
QTY*87*1200*KH Generation - On Peak
MEA*AA*PRQ*1200*KH*0*0*42 Total Generation, with begin/end readings
QTY*87*850*KH Generation - Intermediate Peak
MEA*AA*PRQ*850*KH*0*0*43 Total Generation, with begin/end readings
PTD*BJ Generation Transferred Loop
DTM*150*20160405 Start period
DTM*151*20160504 End period
QTY*QH*200*KH Starting Bank
MEA*AF*PRQ*200*KH***41 Starting Bank – Off Peak
QTY*QH*500*KH Starting Bank
MEA*AF*PRQ*500*KH***42 Starting Bank – On Peak
QTY*QH*200*KH Starting Bank
MEA*AF*PRQ*200*KH***43 Starting Bank – Intermediate Peak
QTY*79*200*KH Self-Generation
MEA*AF*PRQ*200*KH***41 Self-Generation Applied – Off Peak
QTY*79*0*KH Self-Generation
MEA*AF*PRQ*0*KH***42 Self-Generation Applied – On Peak
QTY*79*200*KH Self-Generation
MEA*AF*PRQ*200*KH***43 Self-Generation Applied – Intermediate Peak

QTY* QE *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY*QE*1500*KH	Ending Bank
MEA*AF*PRQ*1500*KH***42	Ending Bank – On Peak
QTY*QE*0*KH	Ending Bank
MEA*AF*PRQ*0*KH***43	Ending Bank – Intermediate Peak

Scenario H - TOU net meter account. No starting banked amounts for any peak period. On Peak excess generation rolls forward. Consumption for Intermediate and Off Peak billed.

Current consumption in PM loop

Off Peak +1600 kWh On Peak +700 kWh Int Peak +1550 kWh

Current generation in PM loop

Off Peak -800 kWh On Peak -1200 kWh Int Peak -850 kWh

Starting banked amounts (QTY*QH)

Off Peak = 0 kWh On Peak = 0 kWh Int Peak = 0 kWh

Self-generation applied from Starting Bank (QTY*79)

Off Peak = 0 kWhOn Peak = 0 kWhInt Peak = 0 kWh

Ending banked amounts (QTY*QE)

Off Peak = 0 kWhOn Peak -500 kWh Int Peak = 0 kWh

Note: For a regular net meter account, the utility will only apply generation from an individual peak period to consumption from the same peak period. Excess generation will roll forward at the peak level.

TOU Net Meter account	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*1500*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*1000*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period

REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*1600*KH	Consumption - Off Peak
MEA*AA*PRQ*1600*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*700*KH	Consumption - On Peak
MEA*AA*PRQ*700*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*1550*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*1550*KH*0*0*43	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*800*KH	Generation - Off Peak
MEA*AA*PRQ*800*KH*0*0*41	Total Generation, with begin/end readings
QTY*87*1200*KH	Generation - On Peak
MEA*AA*PRQ*1200*KH*0*0*42	Total Generation, with begin/end readings
QTY*87*850*KH	Generation - Intermediate Peak
MEA*AA*PRQ*850*KH*0*0*43	Total Generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *0*КН	Starting Bank
MEA*AF*PRQ*0*KH***41	Starting Bank – Off Peak
QTY*QH*0*KH	Starting Bank
MEA*AF*PRQ*0*KH***42	Starting Bank – On Peak
QTY* <mark>QH</mark> *0*KH	Starting Bank
MEA*AF*PRQ*0*KH***43	Starting Bank – Intermediate Peak
QTY* 79 *0*KH	Self-Generation
MEA*AF*PRQ*0*KH***41	Self-Generation Applied – Off Peak
QTY* 79 *0*KH	Self-Generation
MEA*AF*PRQ*0*KH***42	Self-Generation Applied – On Peak
QTY* 79 *0*KH	Self-Generation
MEA*AF*PRQ*0*KH***43	Self-Generation Applied – Intermediate Peak
QTY* QE *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY* <mark>QE</mark> *500*KH	Ending Bank
MEA*AF*PRQ*500*KH***42	Ending Bank – On Peak

QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***43	Ending Bank – Intermediate Peak

PHI/PE Scenario I - TOU net meter account. On Peak excess generation rolls forward. Self-generation applied to Intermediate and Off Peak. Remaining consumption for Intermediate and Off Peak billed. Example for end of year net metering True-Up of excess generation.

Note this is like Scenario G, except the utility cashes out the customer for the year end excess generation.

Current consumption in PM loop

Off Peak +1600 kWh On Peak +200 kWh Int Peak +1550 kWh

Current generation in PM loop

Off Peak -800 kWh On Peak -1200 kWh Int Peak -850 kWh

Starting banked amounts (QTY*QH)

Off Peak -200 kWh On Peak -500 kWh Int Peak -200 kWh

Self-generation applied from Starting Bank (QTY*79)

Off Peak -200 kWh On Peak = 0 kWh Int Peak -200 kWh

True-up of Excess Generation (QTY*QB)

Off Peak 0 kWh On Peak -1500 kWh Int Peak 0 kWh

Ending banked amounts (QTY*QE)

Off Peak 0 kWh On Peak 0 kWh Int Peak 0 kWh

Note 1: For a regular net meter account, the utility will only apply generation from an individual peak period to consumption from the same peak period. Excess generation will roll forward at the peak level and eventually be cashed out (true-up).

Note 2: During True-Up for TOU, if one TOU peak contains excess generation passed in QTY*QB, all TOU peaks must be sent even when 0 kWh. For non-TOU, if there is no excess generation during the True-Up event, the QTY*QB will NOT be sent.

TOU Net Meter account	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*1100*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period

DTM*151*20160504	End period
QTY*QD*500*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*1600*KH	Consumption - Off Peak
MEA*AA*PRQ*1600*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*200*KH	Consumption - On Peak
MEA*AA*PRQ*200*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*1550*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*1550*KH*0*0*43	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*800*KH	Generation - Off Peak
MEA*AA*PRQ*800*KH*0*0*41	Total Generation, with begin/end readings
QTY*87*1200*KH	Generation - On Peak
MEA*AA*PRQ*1200*KH*0*0*42	Total Generation, with begin/end readings
QTY*87*850*KH	Generation - Intermediate Peak
MEA*AA*PRQ*850*KH*0*0*43	Total Generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *200*KH	Starting Bank
MEA*AF*PRQ*200*KH***41	Starting Bank – Off Peak
QTY*QH*500*KH	Starting Bank
MEA*AF*PRQ*500*KH***42	Starting Bank – On Peak
QTY* <mark>QH</mark> *200*KH	Starting Bank
MEA*AF*PRQ*200*KH***43	Starting Bank – Intermediate Peak
	Self-Generation
QTY* 79 *200*KH	
QTY* 79 *200*KH MEA*AF*PRQ*200*KH***41	Self-Generation Applied – Off Peak
	Self-Generation Applied – Off Peak Self-Generation
MEA*AF*PRQ*200*KH***41	**

MEA*AF*PRQ*200*KH***43	Self-Generation Applied – Intermediate Peak
QTY* QB *0*KH	True-Up
MEA*AF*PRQ*0*KH***41	True-Up – Off Peak
QTY*QB*1500*KH	True-Up
MEA*AF*PRQ*1500*KH***42	True-Up – On Peak
QTY* <mark>QB</mark> *0*KH	True-Up
MEA*AF*PRQ*0*KH***43	True-Up – Intermediate Peak
QTY* QE *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY*QE*0*KH	Ending Bank
MEA*AF*PRQ*0*KH***42	Ending Bank – On Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***43	Ending Bank – Intermediate Peak

Maryland (BGE) - Examples of PTD*BJ Loop for Aggregate Net Energy Metering (ANEM), Non-TOU

Example #1 – Parent Host Net Metered Account, No Beginning Bank, No Self-generation applied from Starting Bank, Excess Generation Transferred to 1 Child Account, Remaining Banked

Parent Host Account

- Starting Bank = 0 kWh
- Net Generation = 300 kWh
- Self-generation applied from Starting Bank = 0 kWh
- Generation Transferred to Child Account = 200 kWh
- Ending Bank = 100 kWh

PTD*BB = 0 PTD*SU = 300 Net Generation PTD*PM = 300 Net Generation PTD*BJ (QH) = 0 Starting Bank PTD*BJ (79) = 0 Self-generation Applied from Starting Bank PTD*BJ (78) = 200 Net Transferred Out PTD*BJ (QE) = 100 Banked

0 Starting Bank + 300 Net Generation - 200 Net Transferred -100 Ending Bank = PTD*BB Loop of 0

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*87*300*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*11111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*300*KH	Generation
MEA*AA*PRQ*300*KH*4300*4000*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QH*0*KH	Starting Bank
MEA*AF*PRQ*0*KH***51	Starting Bank – Total Non TOU
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***51	Self-generation Applied From Starting Bank – Total Non TOU
QTY*78*200*KH	Generation Transferred Out
MEA*AF*PRQ*200*KH***51	Generation Transferred Out – Total Non TOU
QTY*QE*100*KH	Ending Bank
MEA*AF*PRQ*100*KH***51	Ending Bank – Total Non TOU

Child Account – Not Net Metered

- Consumption = 200 kWh
- Generation Transferred In = 200 kWh
- Billed Consumption 0 kWh

PTD*BB = 0 Billed Consumption PTD*SU = 200 Net Consumption PTD*PM = 200 Net Consumption PTD*BJ (77) = 200 Generation Transferred In

300 Net Consumption - 200 Net Transferred In = PTD*BB Loop of 100 kWh Billed

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QD*200*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*200*KH	Consumption
MEA*AA*PRQ*200*KH*20000*20200*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*77*200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***51	Generation Transferred In – Total Non TOU

Example #2 – Parent Host Net Metered Account, Beginning Bank, No Self-generation applied from Starting Bank, Excess Generation Transferred to 1 Child Account, Remaining Banked

Parent Host Account

- Starting Bank = 50 kWh
- Net Generation = 300 kWh
- Net Generation Available = 350 kWh
- Self-generation applied from Starting Bank = 0 kWh
- Generation Transferred to Child Account = 200 kWh
- Ending Bank = 150 kWh

PTD*BB = 0 PTD*SU = 300 Net Generation PTD*PM = 300 Net Generation PTD*BJ (QH) = 50 Starting Bank PTD*BJ (79) = 0 Self-generation Applied from Starting Bank PTD*BJ (78) = 200 Net Transferred Out PTD*BJ (QE) = 150 Banked

50 Starting Bank + 300 Net Generation - 200 Net Transferred -150 Ending Bank = PTD*BB Loop of 0

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*87*300*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*11111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*300*KH	Generation
MEA*AA*PRQ*300*KH*4600*4300*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QH*50*KH	Starting Bank
MEA*AF*PRQ*50*KH***51	Starting Bank – Total Non TOU
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***51	Self-generation Applied From Starting Bank – Total Non TOU
QTY*78*200*KH	Generation Transferred Out
MEA*AF*PRQ*200*KH***51	Generation Transferred Out – Total Non TOU
QTY*QE*150*KH	Ending Bank
MEA*AF*PRQ*150*KH***51	Ending Bank – Total Non TOU

Child Account – Not Net Metered

- Consumption = 200 kWh
- Generation Transferred In = 200 kWh
- Billed Consumption 0 kWh

PTD*BB = 0 Billed Consumption PTD*SU = 200 Net Consumption PTD*PM = 200 Net Consumption PTD*BJ (77) = 200 Generation Transferred In

200 Net Consumption - 200 Net Transferred In = PTD*BB Loop of 0 kWh Billed

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QD*200*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*200*KH	Consumption
MEA*AA*PRQ*200*KH*20000*20200*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*77*200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***51	Generation Transferred In – Total Non TOU

Example #3 – Parent Host Net Metered Account, Beginning Bank, No Self-generation applied from Starting Bank, All Excess Generation/Banked kWh Transferred to 1 Child Account, No Ending Bank

Parent Host Account

- Starting Bank = 50 kWh
- Net Generation = 150 kWh
- Net Generation Available = 200 kWh
- Self-generation applied from Starting Bank = 0 kWh
- Generation Transferred to Child Account = 200 kWh
- Ending Bank = 0 kWh

PTD*BB = 0 PTD*SU = 150 Net Generation PTD*PM = 150 Net Generation PTD*BJ (QH) = 50 Starting Bank PTD*BJ (79) = 0 Self-generation Applied from Starting Bank PTD*BJ (78) = 200 Net Transferred Out PTD*BJ (QE) = 0 Ending Bank

50 Starting Bank + 150 Net Generation - 200 Net Transferred - 0 Ending Bank = PTD*BB Loop of 0

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*87*150*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*11111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*150*KH	Generation
MEA*AA*PRQ*150*KH*12450*12300*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QH*50*KH	Starting Bank
MEA*AF*PRQ*50*KH***51	Starting Bank – Total Non TOU
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***51	Self-generation Applied From Starting Bank – Total Non TOU
QTY*78*200*KH	Generation Transferred Out
MEA*AF*PRQ*200*KH***51	Generation Transferred Out – Total Non TOU
QTY*QE*0*KH	Ending Bank
MEA*AF*PRQ*0*KH***51	Ending Bank – Total Non TOU

Child Account – Not Net Metered

- Consumption = 300 kWh
- Generation Transferred In = 200 kWh
- Billed Consumption 100 kWh

PTD*BB = 100 Billed Consumption PTD*SU = 300 Net Consumption PTD*PM = 300 Net Consumption PTD*BJ (77) = 200 Generation Transferred In

300 Net Consumption - 200 Net Transferred In = PTD*BB Loop of 100 kWh Billed

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*100*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QD*300*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*300*KH	Consumption
MEA*AA*PRQ*300*KH*20000*20300*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*77*200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***51	Generation Transferred In – Total Non TOU

Example #4 – Parent Host Generation Only Account, Beginning Bank, No Self-generation applied from Starting Bank. Child Account #1 Net Metered with Bank, Child Account #2 Net Metered without Bank.

Parent Host Account

- Starting Bank = 1,500 kWh
- Generation = 8,000 kWh
- Net Generation Available = 9,500 kWh
- Self-generation applied from Starting Bank = 0 kWh
- Generation Transferred to Child Account #1 = 3,200 kWh
- Generation Transferred to Child Account #2 = 3,300 kWh
- Ending Bank = 3,000 kWh

PTD*BB = 0 PTD*SU = 8,000 Net Generation PTD*PM = 8,000 Net Generation PTD*BJ (QH) = 1,500 Starting Bank PTD*BJ (79) = 0 Self-generation Applied from Starting Bank PTD*BJ (78) = 6,500 Net Transferred Out PTD*BJ (QE) = 3,000 Ending Bank

1,500 Starting Bank + 8,000 Net Generation – 6,500 Net Transferred – 3,000 Ending Bank = PTD*BB Loop of 0

PTD*BB	Monthly Dilled Summary Loon
DTM*150*20160101	Monthly Billed Summary Loop
	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*87*8000*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*8000*KH	Generation
MEA*AA*PRQ*8000*KH*28300*20300*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QH*1500*KH	Starting Bank
MEA*AF*PRQ*1500*KH***51	Starting Bank – Total Non TOU
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***51	Self-generation Applied From Starting Bank – Total Non TOU
QTY*78*6500*KH	Generation Transferred Out
MEA*AF*PRQ*6500*KH***51	Generation Transferred Out – Total Non TOU
QTY*QE*3000*KH	Ending Bank
MEA*AF*PRQ*3000*KH***51	Ending Bank – Total Non TOU

Child Account #1– Net Metered with Starting Bank (BGE Net Metered Child Accounts retain their OWN excess generation, carried over to the following month. It is NOT transferred out to the Total Generation for the family during the period. BGE Net Metered Child must first exhaust all of its own generation before receiving any generation from the Parent Host)

- Starting Bank = 500 kWh
- Net Consumption = 3,700 kWh
- Self-generation applied from Starting Bank = 500 kWh
- Generation Transferred In = 3,200 kWh
- Ending Bank = 0 kWh

PTD*BB = 0 PTD*SU = 3,700 Net Consumption PTD*PM = 3,700 Net Consumption PTD*BJ (QH) = 500 Starting Bank PTD*BJ (79) = 500 Self-generation Applied from Starting Bank PTD*BJ (77) = 3,200 Net Transferred In PTD*BJ (QE) = 0 Ending Bank

500 Starting Bank - 3,700 Net Consumption + 3,200 Net Transferred In – 0 Ending Bank = PTD*BB Loop of 0

D//D.∲DD	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QD*3700*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*3700*KH	Consumption
MEA*AA*PRQ*3700*KH*20000*23700*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QH*500*KH	Starting Bank
MEA*AF*PRQ*500*KH***51	Starting Bank – Total Non TOU
QTY*79*500*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*500*KH***51	Self-generation Applied From Starting Bank – Total Non TOU
QTY*77*3200*KH	Generation Transferred In
MEA*AF*PRQ*3200*KH***51	Generation Transferred In – Total Non TOU
QTY*QE*0*KH	Ending Bank
MEA*AF*PRQ*0*KH***51	Ending Bank – Total Non TOU

Child Account #2- Net Metered without Starting Bank or Ending Bank

- Starting Bank = 0 kWh
- Net Consumption = 3,300 kWh
- Self-generation applied from Starting Bank = 0 kWh
- Generation Transferred In = 3,300 kWh
- Ending Bank = 0 kWh

PTD*BB = 0 PTD*SU = 3,300 Net Consumption PTD*PM = 3,300 Net Consumption PTD*BJ (QH) = 0 Starting Bank PTD*BJ (79) = 0 Self-generation Applied from Starting Bank PTD*BJ (77) = 3,300 Net Transferred In PTD*BJ (QE) = 0 Ending Bank

0 Starting Bank - 3,300 Net Consumption + 3,300 Net Transferred In – 0 Ending Bank = PTD*BB Loop of 0

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*150*20100101 DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QD*3300*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*3300*KH	Consumption
MEA*AA*PRQ*3300*KH*40000*43300*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QH*0*KH	Starting Bank
MEA*AF*PRQ*0*KH***51	Starting Bank – Total Non TOU
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***51	Self-generation Applied From Starting Bank – Total Non TOU
QTY*77*3300*KH	Generation Transferred In
MEA*AF*PRQ*3300*KH***51	Generation Transferred In – Total Non TOU
QTY*QE*0*KH	Ending Bank
MEA*AF*PRQ*0*KH***51	Ending Bank – Total Non TOU

141

Example #5 – Parent Host Net Metered Account, Beginning Bank, No Self-generation applied from Starting Bank, Excess Generation Transferred to 1 Child Account with Multiple Meters, Remaining Banked

Parent Host Account

- Starting Bank = 50 kWh
- Net Generation = 300 kWh
- Net Generation Available = 350 kWh
- Self-generation applied from Starting Bank = 0 kWh
- Generation Transferred to Child Account = 200 kWh
- Ending Bank = 150 kWh

PTD*BB = 0 PTD*SU = 300 Net Generation PTD*PM = 300 Net Generation PTD*BJ (QH) = 50 Starting Bank PTD*BJ (79) = 0 Self-generation Applied from Starting Bank PTD*BJ (78) = 200 Net Transferred Out PTD*BJ (QE) = 150 Banked

50 Starting Bank + 300 Net Generation - 200 Net Transferred -150 Ending Bank = PTD*BB Loop of 0

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*87*300*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*300*KH	Generation
MEA*AA*PRQ*300*KH*4600*4300*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QH*50*KH	Starting Bank
MEA*AF*PRQ*50*KH***51	Starting Bank – Total Non TOU
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***51	Self-generation Applied From Starting Bank – Total Non TOU
QTY*78*200*KH	Generation Transferred Out
MEA*AF*PRQ*200*KH***51	Generation Transferred Out – Total Non TOU
QTY*QE*150*KH	Ending Bank
MEA*AF*PRQ*150*KH***51	Ending Bank – Total Non TOU

Child Account – Not Net Metered

- Consumption = 200 kWh
- Generation Transferred In = 200 kWh
- Billed Consumption 0 kWh

PTD*BB = 0 Billed Consumption PTD*SU = 200 Net Consumption PTD*PM = 200 Net Consumption PTD*BJ = 200 Generation Transferred In

200 Net Consumption - 200 Net Transferred In = PTD*BB Loop of 0 kWh Billed Two meters -Meter 11111111 – Consumption 125, Meter 22222222 – Consumption 75

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QD*200*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*125*KH	Consumption
MEA*AA*PRQ*125*KH*20000*20125*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*22222222	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
OTV*OD*75*KU	Consumption
QTY*QD*75*KH	
MEA*AA*PRQ*75*KH*20000*20075*51	Consumption Total consumption, with begin/end readings
MEA*AA*PRQ*75*KH*20000*20075*51 PTD*BJ	
MEA*AA*PRQ*75*KH*20000*20075*51	Total consumption, with begin/end readings Generation Transferred Loop Start period Start period
MEA*AA*PRQ*75*KH*20000*20075*51 PTD*BJ	Total consumption, with begin/end readings Generation Transferred Loop Start period End period
MEA*AA*PRQ*75*KH*20000*20075*51 PTD*BJ DTM*150*20160101	Total consumption, with begin/end readings Generation Transferred Loop Start period Start period

143

Example #6 – Parent Host Net Metered Account, example for end of year net metering True-Up of excess generation. (Showing Parent Host accounts only)

Parent Host Account – April reporting month (Ending bank true up month).

NOTE: During True-Up for TOU, if one TOU peak contains excess generation, the QTY*QB must be sent for all TOU's even when others contain 0 kWh. For non-TOU, if there is no excess generation during the True-Up event, the QTY*QB will NOT be sent.

- Starting Bank = 0 kWh
- Net Generation = 300 kWh
- Self-generation applied from Starting Bank = 0 kWh
- Generation Transferred to Child Account = 200 kWh
- True-Up = 100 kWh
- Ending Bank = 0 kWh

PTD*BB = 0 PTD*SU = 300 Net Generation PTD*PM = 300 Net Generation PTD*BJ (QH) = 0 Starting Bank PTD*BJ (79) = 0 Self-generation Applied from Starting Bank PTD*BJ (78) = 200 Net Transferred Out PTD*BJ (QB) = 100 True-up (Cashed Out) PTD*BJ (QE) = 0 Banked (Trued up, will NOT appear in May's Starting Bank)

0 Starting Bank + 300 Net Generation - 200 Net Transferred -100 Trued up = PTD*BB Loop of 0

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160401	Start period
DTM*151*20160430	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160401	Start period
DTM*151*20160430	End period
QTY*87*300*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160401	Start period
DTM*151*20160430	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*300*KH	Generation
MEA*AA*PRQ*300*KH*4300*4000*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160401	Start period
DTM*151*20160430	End period
QTY*QH*0*KH	Starting Bank
MEA*AF*PRQ*0*KH***51	Starting Bank – Total Non TOU
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***51	Self-generation Applied From Starting Bank – Total Non TOU
QTY*78*200*KH	Generation Transferred Out
MEA*AF*PRQ*200*KH***51	Generation Transferred Out – Total Non TOU
QTY*QB*100*KH	True-Up
MEA*AF*PRQ*100*KH***51	True-Up – Total Non TOU
QTY*QE*0*KH	Ending Bank

Parent Host Account – May reporting month (Ending bank from April trued up, no Starting Bank)

- Starting Bank = 0 kWh
- Net Generation = 300 kWh
- Self-generation applied from Starting Bank = 0 kWh
- Generation Transferred to Child Account = 100 kWh
- Ending Bank = 200 kWh

PTD*BB = 0 PTD*SU = 300 Net Generation PTD*PM = 300 Net Generation PTD*BJ (QH) = 0 Starting Bank PTD*BJ (79) = 0 Self-generation Applied from Starting Bank PTD*BJ (78) = 100 Net Transferred Out PTD*BJ (QE) = 200 Banked

0 Starting Bank + 300 Net Generation - 100 Net Transferred -200 Ending Bank = PTD*BB Loop of 0

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160430	Start period
DTM*151*20160530	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160430	Start period
DTM*151*20160530	End period
QTY*87*300*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160430	Start period
DTM*151*20160530	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*300*KH	Generation
MEA*AA*PRQ*300*KH*4300*4000*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160430	Start period
DTM*151*20160530	End period
QTY*QH*0*KH	Starting Bank
MEA*AF*PRQ*0*KH***51	Starting Bank – Total Non TOU
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***51	Self-generation Applied From Starting Bank – Total Non TOU
QTY*78*100*KH	Generation Transferred Out
MEA*AF*PRQ*100*KH***51	Generation Transferred Out – Total Non TOU
QTY*QE*200*KH	Ending Bank
MEA*AF*PRQ*200*KH***51	Ending Bank – Total Non TOU

Non-TOU reporting consumption kWh (BGE)

Example #7 – Parent Host Net Metered Account, Beginning Bank, Records consumption for current billing period, Self-generation applied from Starting Bank, Part of Reduced Excess Generation Transferred to 1 Child Account, Remaining Generation Banked

Parent Host Account

- Starting Bank = 1000 kWh
- Net Consumption = 200 kWh
- Self-generation applied from Starting Bank = 200 kWh
- Adjusted Net Generation Available = 800 kWh
- Generation Transferred to Child Account = 300 kWh
- Ending Bank = 500 kWh

PTD*BB = 0 PTD*SU = 200 Net Consumption PTD*PM = 200 Net Consumption PTD*BJ (QH) = 1000 Starting Bank PTD*BJ (79) = 200 Self-generation Applied from Starting Bank PTD*BJ (78) = 300 Net Transferred Out PTD*BJ (QE) = 500 Ending Bank

1000 Starting Bank – 200 Self-generation applied - 300 Net Transferred Out - 500 Ending Bank = PTD*BB Loop of 0

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QD*200*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*200*KH	Generation
MEA*AA*PRQ*200*KH*12450*12650*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QH*1000*KH	Starting Bank
MEA*AF*PRQ*1000*KH***51	Starting Bank – Total Non TOU
QTY*79*200*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*200*KH***51	Self-generation Applied From Starting Bank – Total Non TOU
QTY*78*300*KH	Generation Transferred Out
MEA*AF*PRQ*300*KH***51	Generation Transferred Out – Total Non TOU
QTY*QE*500*KH	Ending Bank
MEA*AF*PRQ*500*KH***51	Ending Bank – Total Non TOU

Child Account – Not Net Metered

- Consumption = 300 kWh
- Generation Transferred In = 300 kWh
- Billed Consumption 0 kWh

PTD*BB = 0 Billed Consumption PTD*SU = 300 Net Consumption PTD*PM = 300 Net Consumption PTD*BJ (77) = 300 Generation Transferred In

300 Net Consumption - 300 Net Transferred In = PTD*BB Loop of 0 kWh Billed

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QD*300*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*300*KH	Consumption
MEA*AA*PRQ*300*KH*20000*20300*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*77*300*KH	Generation Transferred In
MEA*AF*PRQ*300*KH***51	Generation Transferred In – Total Non TOU

147

Maryland (PHI/PE) - Examples of PTD*BJ Loop for Aggregate Net Energy Metering (ANEM), Non-TOU

Non-TOU with Separate Consumption & Generation (PHI & FirstEnergy) **Example #1** – Parent Host Net Metered Account, No Beginning Bank, No Self-generation applied from Starting Bank, Excess Generation Transferred to 1 Child Account, Remaining Banked

Parent Host Account

- Starting Bank = 0 kWh
- Consumption = 1,000 kWh
- Generation = 1,300 kWh
- Net Generation Available = 300 kWh
- Self-generation applied from Starting Bank = 0 kWh
- Generation Transferred to Child Account = 200 kWh
- Ending Bank = 100 kWh

PTD*BB = 0 PTD*SU = 300 Net Generation PTD*PM = 1000 Consumption PTD*PM = 1300 Generation PTD*BJ (QH) = 0 Starting Bank PTD*BJ (79) = 0 Self-generation Applied from Starting Bank PTD*BJ (78) = 200 Net Transferred Out PTD*BJ (QE) = 100 Banked

0 Starting Bank + 300 Net Generation - 200 Net Transferred -100 Ending Bank = PTD*BB Loop of 0

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*87*300*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*1000*KH	Consumption
MEA*AA*PRQ*1000*KH*20000*21000*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*11111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*1300*KH	Generation
MEA*AA*PRQ*1300*KH*4300*3000*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QH*0*KH	Starting Bank
MEA*AF*PRQ*0*KH***51	Starting Bank – Total Non TOU
QTY*79*0*KH	Self-generation Applied from Starting Bank
MEA*AF*PRQ*0*KH***51	Self-generation Applied from Starting Bank – Total Non TOU
QTY*78*200*KH	Generation Transferred Out
MEA*AF*PRQ*200*KH***51	Generation Transferred Out – Total Non TOU
QTY*QE*100*KH	Ending Bank
MEA*AF*PRQ*100*KH***51	Ending Bank – Total Non TOU

Child Account – Not Net Metered

- Consumption = 300 kWh
- Generation Transferred In = 200 kWh
- Billed Consumption 100 kWh

PTD*BB = 0 Billed Consumption PTD*SU = 200 Consumption PTD*PM = 200 Consumption PTD*BJ = 200 Generation Transferred In

200 Net Consumption - 200 Net Transferred In = PTD*BB Loop of 0 kWh Billed

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QD*200*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*200*KH	Consumption
MEA*AA*PRQ*200*KH*20000*20200*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*77*200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***51	Generation Transferred In – Total Non TOU

149

Non-TOU with Separate Consumption & Generation (PHI & FirstEnergy) **Example #2** – Parent Host Net Metered Account, Beginning Bank, No Self-generation applied from Starting Bank, Excess Generation Transferred to 1 Child Account, Remaining Banked

Parent Host Account

- Starting Bank = 50 kWh
- Consumption = 1,000 kWh
- Generation = 1,300 kWh
- Net Generation Available = 350 kWh
- Self-generation applied from Starting Bank = 0 kWh
- Generation Transferred to Child Account = 200 kWh
- Ending Bank = 150 kWh

PTD*BB = 0 PTD*SU = 300 Net Generation PTD*PM = 1000 Consumption PTD*PM = 1300 Generation PTD*BJ (QH) = 50 Starting Bank PTD*BJ (79) = 0 Self Generation Applied from Starting Bank PTD*BJ (78) = 200 Net Transferred Out PTD*BJ (QE) = 150 Banked

50 Starting Bank + 300 Net Generation - 200 Net Transferred -150 Ending Bank = PTD*BB Loop of 0

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*87*300*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*1000*KH	Consumption
MEA*AA*PRQ*1000*KH*20000*21000*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*11111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*1300*KH	Generation
MEA*AA*PRQ*1300*KH*4600*3300*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QH*50*KH	Starting Bank
MEA*AF*PRQ*50*KH***51	Starting Bank – Total Non TOU
QTY*79*0*KH	Self-generation Applied from Starting Bank
MEA*AF*PRQ*0*KH***51	Self-generation Applied from Starting Bank – Total Non TOU
QTY*78*200*KH	Generation Transferred Out
MEA*AF*PRQ*200*KH***51	Generation Transferred Out – Total Non TOU
QTY*QE*150*KH	Ending Bank
MEA*AF*PRQ*150*KH***51	Ending Bank – Total Non TOU

Child Account – Not Net Metered

- Consumption = 200 kWh
- Generation Transferred In = 200 kWh
- Billed Consumption 0 kWh

PTD*BB = 0 Billed Consumption PTD*SU = 200 Consumption PTD*PM = 200 Consumption PTD*BJ = 200 Generation Transferred In

200 Net Consumption - 200 Net Transferred In = PTD*BB Loop of 0 kWh Billed

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QD*200*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*200*KH	Consumption
MEA*AA*PRQ*200*KH*20000*20200*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*77*200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***51	Generation Transferred In – Total Non TOU

Non-TOU with Separate Consumption & Generation (PHI & FirstEnergy) **Example #3** – Parent Host Net Metered Account, Beginning Bank, No Self-generation applied from Starting Bank, All Excess Generation/Banked kWh Transferred to 1 Child Account, No Ending Bank

Parent Host Account

- Starting Bank = 50 kWh
- Consumption = 1,000 kWh
- Generation = 1,150 kWh
- Net Generation Available = 200 kWh
- Self-generation applied from Starting Bank = 0 kWh
- Generation Transferred to Child Account = 200 kWh
- Ending Bank = 0 kWh

PTD*BB = 0 PTD*SU = 150 Net Generation PTD*PM = 1000 Consumption PTD*PM = 1150 Generation PTD*BJ (QH) = 50 Starting Bank PTD*BJ (79) = 0 Self Generation Applied from Starting Bank PTD*BJ (78) = 200 Net Transferred Out PTD*BJ (QE) = 0 Ending Bank

50 Starting Bank + 150 Net Generation - 200 Net Transferred - 0 Ending Bank = PTD*BB Loop of 0

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*87*150*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*1000*KH	Consumption
MEA*AA*PRQ*1000*KH*20000*21000*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*1150*KH	Generation
MEA*AA*PRQ*1150*KH*13450*12300*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QH*50*KH	Starting Bank
MEA*AF*PRQ*50*KH***51	Starting Bank – Total Non TOU
QTY*79*0*KH	Self-generation Applied from Starting Bank
MEA*AF*PRQ*0*KH***51	Self-generation Applied from Starting Bank – Total Non TOU
QTY*78*200*KH	Generation Transferred Out
MEA*AF*PRQ*200*KH***51	Generation Transferred Out – Total Non TOU
QTY*QE*0*KH	Ending Bank
MEA*AF*PRQ*0*KH***51	Ending Bank – Total Non TOU

Child Account – Not Net Metered

- Consumption = 300 kWh
- Generation Transferred In = 200 kWh
- Billed Consumption 100 kWh

PTD*BB = 100 Billed Consumption PTD*SU = 300 Consumption PTD*PM = 300 Consumption PTD*BJ = 200 Generation Transferred In

300 Net Consumption - 200 Net Transferred In = PTD*BB Loop of 100 kWh Billed

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*100*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QD*300*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*300*KH	Consumption
MEA*AA*PRQ*300*KH*20000*20300*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*77*200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***51	Generation Transferred In – Total Non TOU

Non-TOU with Separate Consumption & Generation (PHI & FirstEnergy) **Example #4** – Parent Host Net Metered Account, Beginning Bank, No Self-generation applied from Starting Bank, Excess Generation Transferred to 1 Child Account with Multiple Meters, Remaining Banked

Parent Host Account

- Starting Bank = 50 kWh
- Consumption = 1,000 kWh
- Generation = 1,300 kWh
- Net Generation Available = 350 kWh
- Self-generation applied from Starting Bank = 0 kWh
- Generation Transferred to Child Account = 200 kWh
- Ending Bank = 150 kWh

PTD*BB = 0 PTD*SU = 300 Net Generation PTD*PM = 1000 Consumption PTD*PM = 1300 Generation PTD*BJ (QH) = 50 Starting Bank PTD*BJ (79) = 0 Self Generation Applied from Starting Bank PTD*BJ (78) = 200 Net Transferred Out PTD*BJ (QE) = 150 Banked

50 Starting Bank + 300 Net Generation - 200 Net Transferred -150 Ending Bank = PTD*BB Loop of 0

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*87*300*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*1000*KH	Consumption
MEA*AA*PRQ*1000*KH*20000*21000*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*11111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*1300*KH	Generation
MEA*AA*PRQ*1300*KH*4600*3300*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QH*50*KH	Starting Bank
MEA*AF*PRQ*50*KH***51	Starting Bank – Total Non TOU
QTY*79*0*KH	Self-generation Applied from Starting Bank
MEA*AF*PRQ*0*KH***51	Self-generation Applied from Starting Bank – Total Non TOU
QTY*78*200*KH	Generation Transferred Out
MEA*AF*PRQ*200*KH***51	Generation Transferred Out – Total Non TOU
QTY*QE*150*KH	Ending Bank
MEA*AF*PRQ*150*KH***51	Ending Bank – Total Non TOU

Child Account – Not Net Metered

- Consumption = 200 kWh
- Generation Transferred In = 200 kWh
- Billed Consumption 0 kWh

PTD*BB = 0 Billed Consumption PTD*SU = 200 Net Consumption PTD*PM = 125 Net Consumption (Meter 1111111) PTD*PM = 75 Net Consumption (Meter 2222222) PTD*BJ = 200 Generation Transferred In

200 Net Consumption - 200 Net Transferred In = PTD*BB Loop of 0 kWh Billed Two meters -Meter 11111111 – Consumption 125, Meter 22222222 – Consumption 75

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QD*200*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*125*KH	Consumption
MEA*AA*PRQ*125*KH*20000*20125*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*22222222	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*75*KH	Consumption
MEA*AA*PRQ*75*KH*20000*20075*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*77*200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***51	Generation Transferred In – Totalizer (Non TOU)

Non-TOU reporting Separate Consumption & Generation (PHI & FirstEnergy) **Example #5** – Parent Host Net Metered Account, Beginning Bank, Records consumption for current billing period, Self-generation applied from Starting Bank, Part of Reduced Excess Generation Transferred to 1 Child Account, Remaining Generation Banked

Parent Host Account

- Starting Bank = 1000 kWh
- Consumption = 400 kWh
- Generation = 200 kWh
- Self-generation applied from Starting Bank = 200 kWh
- Adjusted Net Generation Available = 800 kWh
- Generation Transferred to Child Account = 300 kWh
- Ending Bank = 500 kWh

PTD*BB = 0 PTD*SU = 200 Net Consumption PTD*PM = 400 Consumption PTD*PM = 200 Generation PTD*BJ (QH) = 1000 Starting Bank PTD*BJ (79) = 200 Self-generation Applied from Starting Bank PTD*BJ (78) = 300 Net Transferred Out PTD*BJ (QE) = 500 Ending Bank

200 Net Consumption - 200 Self-generation applied = PTD*BB Loop of 0

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
OTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QD*200*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160401	Start period
DTM*151*20160430	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*400*KH	Consumption
MEA*AA*PRQ*400*KH*20000*20400*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*11111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*200*KH	Generation
MEA*AA*PRQ*200*KH*12450*12650*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QH*1000*KH	Starting Bank
MEA*AF*PRQ*1000*KH***51	Starting Bank – Total Non TOU
QTY*79*200*KH	Self-generation Applied from Starting Bank
MEA*AF*PRQ*200*KH***51	Self-generation Applied from Starting Bank – Total Non TOU
QTY*78*300*KH	Generation Transferred Out
MEA*AF*PRQ*300*KH***51	Generation Transferred Out – Total Non TOU
QTY*QE*500*KH	Ending Bank
MEA*AF*PRQ*500*KH***51	Ending Bank – Total Non TOU

867 Monthly Usage (4010)

IG867MUv6-7.docxx

Child Account – Not Net Metered

- Consumption = 300 kWh
- Generation Transferred In = 300 kWh
- Billed Consumption 0 kWh

PTD*BB = 0 Billed Consumption PTD*SU = 300 Net Consumption PTD*PM = 300 Net Consumption PTD*BJ (77) = 300 Generation Transferred In

300 Net Consumption - 300 Net Transferred In = PTD*BB Loop of 0 kWh Billed

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QD*300*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*300*KH	Consumption
MEA*AA*PRQ*300*KH*20000*20300*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*77*300*KH	Generation Transferred In
MEA*AF*PRQ*300*KH***51	Generation Transferred In – Total Non TOU

Non-TOU with Separate Consumption & Generation

Example #6 – Parent Host Generation Only Account, Two Parent Accounts with Generation, Two Child Accounts, remaining banked. **(PHI only scenario, neither BGE nor FirstEnergy use Parent accounts)**

Parent Host Account

- Starting Bank = 1,500 kWh
- Generation = 8,000 kWh
- Generation Transferred In from 1st Parent Account = 1000 kWh
- Net Generation Available = 10,500 kWh
- Self-generation applied from Starting Bank = 0 kWh
- Generation Transferred Out to 2^{nd} Parent Account = 500 kWh
- Generation Transferred Out to 1st Child Account = 4,700 kWh
- Generation Transferred Out to 2^{nd} Child Account = 4,300 kWh
- Ending Bank = 1,000 kWh

PTD*BB = 0 PTD*SU = 8,000 Generation PTD*PM = 1,000 Consumption PTD*PM = 9,000 Generation PTD*BJ (QH) = 1,500 Starting Bank PTD*BJ (77) = 1,000 Net Transferred In (from Parent #1) PTD*BJ (79) = 0 Self Generation Applied from Starting Bank PTD*BJ (78) = 9,500 Net Transferred Out PTD*BJ (QE) = 1,000 Ending Bank

1,500 Starting Bank + 8,000 Net Generation + 1,000 Net Generation from 1st Parent – 500 Net Transferred to 2nd Parent – 4,700 Transferred to 1st Child – 4,300 Transferred to 2nd Child – 1,000 Ending Bank = PTD*BB Loop 0

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*87*8000*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*1000*KH	Consumption
MEA*AA*PRQ*1000*KH*28300*29300*51	Total generation, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*9000*KH	Generation
MEA*AA*PRQ*9000*KH*29300*20300*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QH*1500*KH	Starting Bank
MEA*AF*PRQ*1500*KH***51	Starting Bank – Total Non TOU
QTY*79*0*KH	Self-generation Applied from Starting Bank
MEA*AF*PRQ*0*KH***51	Self-generation Applied from Starting Bank – Total Non TOU

QTY*77*1000*KH	Generation Transferred In
MEA*AF*PRQ*1000*KH***51	Generation Transferred In – Totalizer (Non TOU)
QTY*78*9500*KH	Generation Transferred Out
MEA*AF*PRQ*500*KH***51	Generation Transferred Out – Total Non TOU
QTY*QE*1000*KH	Ending Bank
MEA*AF*PRQ*1000*KH***51	Ending Bank – Total Non TOU

Parent Account #1 – PHI parent account's excess generation is transferred out to the total net generation available for the family during the reporting period. Does not utilize any starting bank or ending bank to carry over to itself for use during the following month.

- Consumption = 2,000 kWh
- Generation = 3,000 kWh
- Net Generation Available = 1,000 kWh
- Generation Transferred In = 0 kWh
- Generation Transferred Out = 1,000 kWh

PTD*BB = 0 PTD*SU = 1,000 Net Generation PTD*PM = 2,000 Consumption PTD*PM - 3,000 Generation PTD*BJ (77) = 0 Net Transferred In (from ParentHost) PTD*BJ (78) = 1,000 Net Transferred Out

1000 Net Generation – 1,000 Net Transferred = PTD*BB Loop of 0

Total Generation Available for period is now - 10,500 (Parent Host 9,500 + 1st Parent 1,000)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*87*1000*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*2000*KH	Consumption
MEA*AA*PRQ*2000*KH*26300*28300*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*11111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*3000*KH	Generation
MEA*AA*PRQ*3000*KH*28300*25300*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*77*0*KH	Generation Transferred In
MEA*AF*PRQ*0*KH***51	Generation Transferred In – Totalizer (Non TOU)
QTY*78*1000*KH	Generation Transferred Out
MEA*AF*PRQ*1000*KH***51	Generation Transferred Out – Total Non TOU

Parent Account #2 - Does not utilize any starting bank or ending bank to carry over to itself for use during the following month.

- Consumption = 2,500 kWh
- Generation = 2,000 kWh
- Generation Transferred In = 500 kWh
- Generation Transferred Out = 0 kWh

PTD*BB = 0 PTD*SU = 500 Net Consumption PTD*PM = 2,500 Consumption PTD*PM - 2,000 Generation PTD*BJ (77) = 500 Net Generation Transferred In PTD*BJ (78) = 1,000 Net Transferred Out

500 Net Consumption – 500 Net Transferred = PTD*BB Loop of 0

Total Generation Available for period is now – 10,000 (Parent Host 9,500 + 1st Parent 1,000 – 2nd Parent 500)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QD*500*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*2500*KH	Consumption
MEA*AA*PRQ*2500*KH*26300*28800*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*11111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*2000*KH	Generation
MEA*AA*PRQ*3000*KH*28800*26800*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*77*500*KH	Generation Transferred In
MEA*AF*PRQ*500*KH***51	Generation Transferred In – Total Non TOU
QTY*78*0*KH	Generation Transferred Out
MEA*AF*PRQ*0*KH***51	Generation Transferred Out – Total Non TOU

Child Account #1

- Consumption = 4,700 kWh
- Generation Transferred In = 4,700 kWh

PTD*BB = 0 PTD*SU = 4,700 Consumption PTD*PM = 4,700 Consumption PTD*BJ (77) = 4,700 Transferred In

4,700 Consumption - 4,700 Transferred In – 0 Ending Bank = PTD*BB Loop of 0

Total Generation Available for period is now – 5,300 (Parent Host 9,500 + Parent1 1,000 – Parent2 500 – Child1 4700)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QD*4700*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*4700*KH	Consumption
MEA*AA*PRQ*4700*KH*20000*24700*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*77*4700*KH	Generation Transferred In
MEA*AF*PRQ*4700*KH***51	Generation Transferred In – Total Non TOU

Child Account #2

- Consumption = 4,300 kWh
- Generation Transferred In = 4,300 kWh

PTD*BB = 0 PTD*SU = 4,300 Net Consumption PTD*PM = 4,300 Consumption PTD*BJ (77) = 4,300 Net Transferred In

4,300 Consumption - 4,300 Transferred In – 0 Ending Bank = PTD*BB Loop of 0

Total Generation Ending Bank on Parent Host = 1,000 (Parent Host 9,500 + 1^{st} Parent 1,000 - 2^{nd} Parent 500 - 1^{st} Child 4700 - 2^{nd} Child 4300)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*QD*4300*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*4300*KH	Consumption
MEA*AA*PRQ*4300*KH*40000*44300*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160101	Start period
DTM*151*20160131	End period
QTY*77*4300*KH	Generation Transferred In
MEA*AF*PRQ*4300*KH***51	Generation Transferred In – Total Non TOU

162

Non-TOU reporting Separate Consumption & Generation (PHI & FirstEnergy) **Example #7** – Parent Host Net Metered Account, example for end of year net metering True-Up of excess generation. (Showing Parent Host accounts only)

Parent Host Account - April reporting month (Ending bank true up month)

NOTE: During True-Up for TOU, if one TOU peak contains excess generation, the QTY*QB must be sent for all TOU's even when others contain 0 kWh. For non-TOU, if there is no excess generation during the True-Up event, the QTY*QB will NOT be sent.

- Starting Bank = 0 kWh
- Consumption = 1,000 kWh
- Generation = 1,300 kWh
- Net Generation Available = 300 kWh
- Self-generation applied from Starting Bank = 0 kWh
- Generation Transferred to Child Account = 200 kWh
- True-Up = 100 kWh
- Ending Bank = 0 kWh

PTD*BB = 0 PTD*SU = 300 Net Generation PTD*PM = 1000 Consumption PTD*PM = 1300 Generation PTD*BJ (QH) = 0 Starting Bank PTD*BJ (79) = 0 Self Generation Applied from Starting Bank PTD*BJ (78) = 200 Net Transferred Out PTD*BJ (QB) = 100 True-Up (Cashed Out) PTD*BJ (QE) = 0 Banked

0 Starting Bank + 300 Net Generation - 200 Net Transferred -100 True-Up= PTD*BB Loop of 0

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160401	Start period
DTM*151*20160430	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160401	Start period
DTM*151*20160430	End period
QTY*87*300*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160401	Start period
DTM*151*20160430	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*1000*KH	Consumption
MEA*AA*PRQ*1000*KH*20000*21000*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160401	Start period
DTM*151*20160430	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*1300*KH	Generation
MEA*AA*PRQ*1300*KH*4300*3000*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160401	Start period
DTM*151*20160430	End period
QTY*QH*0*KH	Starting Bank
MEA*AF*PRQ*0*KH***51	Starting Bank – Total Non TOU
QTY*79*0*KH	Self-generation Applied from Starting Bank
MEA*AF*PRQ*0*KH***51	Self-generation Applied from Starting Bank – Total Non TOU
QTY*78*200*KH	Generation Transferred Out
MEA*AF*PRQ*200*KH***51	Generation Transferred Out – Total Non TOU
QTY*QB*100*KH	True Up
MEA*AF*PRQ*100*KH***51	True Up – Total Non TOU
0.77 M $_{\odot}$ (11 II $_{\odot}$ (4010)	

867 Monthly Usage (4010)

IG867MUv6-7.docxx

QTY*QE*0*KH	Ending Bank
MEA*AF*PRQ*0*KH***51	Ending Bank – Total Non TOU

Parent Host Account – May reporting month (Ending bank from April trued up, no Starting Bank)

- Starting Bank = 0 kWh
- Consumption = 1,000 kWh
- Generation = 1,300 kWh
- Net Generation Available = 300 kWh
- Self-generation applied from Starting Bank = 0 kWh
- Generation Transferred to Child Account = 200 kWh
- Ending Bank = 100 kWh

PTD*BB = 0 PTD*SU = 300 Net Generation PTD*PM = 1000 Consumption PTD*PM = 1300 Generation PTD*BJ (QH) = 0 Starting Bank (Bank Trued up, does not match prior month's ending bank) PTD*BJ (79) = 0 Self Generation Applied from Starting Bank PTD*BJ (78) = 200 Net Transferred Out PTD*BJ (QE) = 100 Banked

0 Starting Bank + 300 Net Generation - 200 Net Transferred -100 Ending Bank = PTD*BB Loop of 0

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160430	Start period
DTM*151*20160531	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160430	Start period
DTM*151*20160531	End period
QTY*87*300*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160430	Start period
DTM*151*20160531	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*QD*1000*KH	Consumption
MEA*AA*PRQ*1000*KH*20000*21000*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160430	Start period
DTM*151*20160531	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*6.0	Number of dials or digits
QTY*87*1300*KH	Generation
MEA*AA*PRQ*1300*KH*4300*3000*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160430	Start period
DTM*151*20160531	End period
QTY*QH*0*KH	Starting Bank
MEA*AF*PRQ*0*KH***51	Starting Bank – Total Non TOU
QTY*79*0*KH	Self-generation Applied from Starting Bank
MEA*AF*PRQ*0*KH***51	Self-generation Applied from Starting Bank – Total Non TOU
QTY*78*200*KH	Generation Transferred Out
MEA*AF*PRQ*200*KH***51	Generation Transferred Out – Total Non TOU
QTY*QE*100*KH	Ending Bank
MEA*AF*PRQ*100*KH***51	Ending Bank – Total Non TOU

164

Maryland (BGE) - Examples of PTD*BJ Loop for Aggregate Net Energy Metering (ANEM), TOU

BGE Scenario A - Host is TOU, Child # 1 is Non-TOU, Child # 2 is TOU. Neither Child is net metered.

Parent Host Account

Starting Banked amounts for Host Off Peak -300 kWh On Peak -500 kWh Int Peak -400 kWh

Host's current usage for 04/05/16 to 05/04/16 Off Peak -50 kWh On Peak -100 kWh Int Peak -75 kWh

So the host now has the following excess generation to apply to his children: -350 kWh from Off Peak -600 kWh from On Peak -475 kWh from Int Peak

Ending Banked amounts for Host Off Peak 0 kWh On Peak -325 kWh Int Peak 0 kWh

Child #1 (NON-TOU)

Current usage for 04/05/16 to 05/04/16 is +400 kWh (350 kWh from Host's Off Peak and 50 kWh from Host's Int Peak applied)

Child #2 (TOU)

Current usage for 04/05/16 to 05/04/16 Off Peak +200 kWh (200 kwh from Host's On Peak applied) On Peak +300 kWh (300 kWh from Host's Int Peak applied) Int Peak +200 kWh (125 kWh from Host's Int Peak and 75 kWh from Host's On Peak applied)

Notes:

- 4. BGE applies generation from the host using Off Peak first, then Intermediate and lastly On Peak.
- 5. BGE applies generation to a child in the opposite order (On Peak first, then Intermediate and lastly Off Peak).

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*87*225*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period

Parent Account (Net Meter TOU)

REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*50*KH	Generation - Off Peak
MEA*AA*PRQ*50*KH*0*0*41	Total generation, with begin/end readings
QTY*87*100*KH	Generation - On Peak
MEA*AA*PRQ*100*KH*0*0*42	Total consumption, with begin/end readings
QTY*87*75*KH	Generation - Intermediate Peak
MEA*AA*PRQ*75*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *300*KH	Starting Bank
MEA*AF*PRQ*300*KH***41	Starting Bank – Off Peak
QTY*QH*500*KH	Starting Bank
MEA*AF*PRQ*500*KH***42	Starting Bank – On Peak
QTY*QH*400*KH	Starting Bank
MEA*AF*PRQ*400*KH***43	Starting Bank – Intermediate Peak
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***41	Self-generation Applied From Starting Bank to Off Peak
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***42	Self-generation Applied From Starting Bank to On Peak
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***43	Self-generation Applied From Starting Bank to Intermediate Peak
QTY*78*350*KH	Generation Transferred Out
MEA*AF*PRQ*350*KH***41	Generation Transferred Out – Off Peak
QTY* <mark>78</mark> *275*KH	Generation Transferred Out
MEA*AF*PRQ*275*KH***42	Generation Transferred Out – On Peak
QTY* <mark>78</mark> *475*KH	Generation Transferred Out
MEA*AF*PRQ*475*KH***43	Generation Transferred Out – Intermediate Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY* <mark>QE</mark> *325*KH	Ending Bank
MEA*AF*PRQ*325*KH***42	Ending Bank – On Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***43	Ending Bank – Intermediate Peak

Child #1 (Non-TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*400*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*400*KH	Consumption
MEA*AA*PRQ*400*KH*20000*20400*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* 77 *400*KH	Generation Transferred In
MEA*AF*PRQ*400*KH***51	Generation Transferred In – Total Non TOU

Child #2 (TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*700*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits

QTY*QD*200*KH	Consumption - Off Peak
MEA*AA*PRQ*200*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*300*KH	Consumption - On Peak
MEA*AA*PRQ*300*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*200*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*200*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* 77 *200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***41	Generation Transferred In – Off Peak
QTY* 77 *300*KH	Generation Transferred In
MEA*AF*PRQ*300*KH***42	Generation Transferred In – On Peak
QTY*77*200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***43	Generation Transferred In – Intermediate Peak

BGE Scenario B - Host is TOU, Child # 1 is TOU, Child # 2 is Non-TOU

Parent Host Account

Starting Banked amounts for Host Off Peak -300 kWh On Peak -500 kWh Int Peak -400 kWh

Host's current usage for 04/05/16 to 05/04/16 Off Peak -50 kWh On Peak -100 kWh Int Peak -75 kWh

So the host now has the following excess generation to apply to his children: -350 kWh from Off Peak -600 kWh from On Peak -475 kWh from Int Peak

Ending Banked amounts for Host Off Peak 0 kWh On Peak -325 kWh Int Peak 0 kWh

Child #1 (TOU)

Current usage for 04/05/16 to 05/04/16 Off Peak +200 kWh (200 kwh from Host's Int Peak applied) On Peak +300 kWh (300 kWh from Host's Off Peak applied) Int Peak +200 kWh (50 kWh from Host's Off Peak and 150 kWh from Host's Int Peak applied)

Child #2 (NON-TOU)

Current usage for 04/05/16 to 05/04/16 is +400 kWh (125 kWh from Host's Int Peak and 275 kWh from Host's On Peak applied)

Notes:

- 4. BGE applies generation <u>from the host</u> using Off Peak first, then Intermediate and lastly On Peak.
- 5. BGE applies generation <u>to a child</u> in the opposite order (On Peak first, then Intermediate and lastly Off Peak).

Farent Account (Net Meter 100)	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*87*225*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*50*KH	Generation - Off Peak
MEA*AA*PRQ*50*KH*0*0*41	Total generation, with begin/end readings
QTY*87*100*KH	Generation - On Peak
MEA*AA*PRQ*100*KH*0*0*42	Total consumption, with begin/end readings
QTY*87*75*KH	Generation - Intermediate Peak
MEA*AA*PRQ*75*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *300*KH	Starting Bank
MEA*AF*PRQ*300*KH***41	Starting Bank – Off Peak
QTY* <mark>QH</mark> *500*KH	Starting Bank
MEA*AF*PRQ*500*KH***42	Starting Bank – On Peak
QTY* <mark>QH</mark> *400*KH	Starting Bank
MEA*AF*PRQ*400*KH***43	Starting Bank – Intermediate Peak
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***41	Self-generation Applied From Starting Bank to Off Peak
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***42	Self-generation Applied From Starting Bank to On Peak
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***43	Self-generation Applied From Starting Bank to Intermediate Peak

Parent Account (Net Meter TOU)

867 Monthly Usage (4010)

QTY* 78 *350*KH	Generation Transferred Out
MEA*AF*PRQ*350*KH***41	Generation Transferred Out – Off Peak
QTY* 78 *275*KH	Generation Transferred Out
MEA*AF*PRQ*275*KH***42	Generation Transferred Out – On Peak
QTY* 78 *475*KH	Generation Transferred Out
MEA*AF*PRQ*475*KH***43	Generation Transferred Out – Intermediate Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY* <mark>QE</mark> *325*KH	Ending Bank
MEA*AF*PRQ*325*KH***42	Ending Bank – On Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***43	Ending Bank – Intermediate Peak

Child #1 (TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*700*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*200*KH	Consumption - Off Peak
MEA*AA*PRQ*200*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*300*KH	Consumption - On Peak
MEA*AA*PRQ*300*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*200*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*200*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop

DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* 77 *200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***41	Generation Transferred In – Off Peak
QTY*77*300*KH	Generation Transferred In
MEA*AF*PRQ*300*KH***42	Generation Transferred In – On Peak
QTY*77*200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***43	Generation Transferred In – Intermediate Peak

Child #2 (Non-TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*400*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*400*KH	Consumption
MEA*AA*PRQ*400*KH*20000*20400*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* 77 *400*KH	Generation Transferred In
MEA*AF*PRQ*400*KH***51	Generation Transferred In – Total Non TOU

BGE Scenario C - Host is TOU, Child # 1 is TOU, Child # 2 is TOU (Host's generation is exhausted on Child # 2)

Parent Host Account

Starting Banked amounts for Host Off Peak -300 kWh On Peak -500 kWh Int Peak -400 kWh

Host's current usage for 04/05/16 to 05/04/16 Off Peak -50 kWh On Peak -100 kWh Int Peak -75 kWh

So the host now has the following excess generation to apply to his children: -350 kWh from Off Peak -600 kWh from On Peak -475 kWh from Int Peak

Ending Banked amounts for Host Off Peak 0 kWh On Peak 0 kWh Int Peak 0 kWh

Child #1 (TOU)

Current usage for 04/05/16 to 05/04/16 Off Peak +200 kWh (200 kwh from Host's Int Peak applied) On Peak +300 kWh (300 kWh from Host's Off Peak applied) Int Peak +200 kWh (50 kWh from Host's Off Peak and 150 kWh from Host's Int Peak applied)

Child #2 (TOU)

Current usage for 04/05/16 to 05/04/16 Off Peak +300 kWh (Child will be billed for 300 kWh from Off Peak) On Peak +500 kWh (125 kWh from Host's Int Peak applied and 375 kWh from Host's On Peak applied) Int Peak +400 kWh (225 kWh from Host's On Peak applied; Child will be billed for 175 kWh from Int Peak)

Notes:

- 4. BGE applies generation <u>from the host</u> using Off Peak first, then Intermediate and lastly On Peak.
- 5. BGE applies generation to a child in the opposite order (On Peak first, then Intermediate and lastly Off Peak).

ParentHost Account (Net Meter TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*87*225*KH	Calculated net KH
PTD*PM	Meter detail loop

DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*50*KH	Generation - Off Peak
MEA*AA*PRQ*50*KH*0*0*41	Total generation, with begin/end readings
QTY*87*100*KH	Generation - On Peak
MEA*AA*PRQ*100*KH*0*0*42	Total consumption, with begin/end readings
QTY*87*75*KH	Generation - Intermediate Peak
MEA*AA*PRQ*75*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *300*KH	Starting Bank
MEA*AF*PRQ*300*KH***41	Starting Bank – Off Peak
QTY* <mark>QH</mark> *500*KH	Starting Bank
MEA*AF*PRQ*500*KH***42	Starting Bank – On Peak
QTY* <mark>QH</mark> *400*KH	Starting Bank
MEA*AF*PRQ*400*KH***43	Starting Bank – Intermediate Peak
QTY* 79 *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***41	Self-generation Applied From Starting Bank to Off Peak
QTY* 79 *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***42	Self-generation Applied From Starting Bank to On Peak
QTY* 79 *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***43	Self-generation Applied From Starting Bank to Intermediate Peak
QTY* 78 *350*KH	Generation Transferred Out
MEA*AF*PRQ*350*KH***41	Generation Transferred Out – Off Peak
QTY* 78 *600*KH	Generation Transferred Out
MEA*AF*PRQ*600*KH***42	Generation Transferred Out – On Peak
QTY* 78 *475*KH	Generation Transferred Out
	Generation Transferred Out – Intermediate Peak
MEA*AF*PRQ*475*KH***43	
MEA*AF*PRQ*475*KH***43 QTY* QE *0*KH	Ending Bank
_	Ending Bank Ending Bank – Off Peak
QTY*QE*0*KH	
QTY*QE*0*KH MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY* QE *0*KH MEA*AF*PRQ*0*KH***41 QTY* QE *0*KH	Ending Bank – Off Peak Ending Bank

Child #1 (TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*700*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*200*KH	Consumption - Off Peak
MEA*AA*PRQ*200*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*300*KH	Consumption - On Peak
MEA*AA*PRQ*300*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*200*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*200*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* 77 *200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***41	Generation Transferred In – Off Peak
QTY* 77 *300*KH	Generation Transferred In
MEA*AF*PRQ*300*KH***42	Generation Transferred In – On Peak
QTY* 77 *200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***43	Generation Transferred In – Intermediate Peak

Child #2 (TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*475*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period

DTM*151*20160504	End period
QTY*QD*1200*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*300*KH	Consumption - Off Peak
MEA*AA*PRQ*300*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*500*KH	Consumption - On Peak
MEA*AA*PRQ*500*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*400*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*400*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*77*0*KH	Generation Transferred In
MEA*AF*PRQ*0*KH***41	Generation Transferred In – Off Peak
QTY* 77 *500*KH	Generation Transferred In
MEA*AF*PRQ*500*KH***42	Generation Transferred In – On Peak
QTY*77*225*KH	Generation Transferred In
MEA*AF*PRQ*225*KH***43	Generation Transferred In – Intermediate Peak

BGE Scenario D - Host is TOU, Child # 1 is TOU Net Meter, Child # 2 is TOU

Parent Host Account

Starting Banked amounts for Host Off Peak -500 kWh On Peak -1000 kWh Int Peak -800 kWh

Host's current usage for 04/05/16 to 05/04/16 Off Peak -100 kWh On Peak -500 kWh Int Peak -200 kWh

So the host now has the following excess generation to apply to his children: -600 kWh from Off Peak -1500 kWh from On Peak -1000 kWh from Int Peak

Ending Banked amounts for Host Off Peak 0 kWh On Peak -200 kWh Int Peak 0 kWh

Child #1 (TOU- Net Meter)

Starting Banked amounts for Child # 1 Off Peak 0 kWh On Peak -200 kWh Int Peak -100 kWh

Current usage for 04/05/16 to 05/04/16 for Child # 1 Off Peak +100 kWh (100 kwh from Host's Off Peak applied) On Peak +400 kWh (100 kWh from Child's Int Peak applied, 200 kWh from Child's On Peak applied and 100 kWh from Host's Off Peak applied) Int Peak +200 kWh (200 kWh from Host's Off Peak applied)

Ending Banked amounts for Child # 1 Off Peak 0 kWh On Peak 0 kWh Int Peak 0 kWh

Child #2 (TOU)

Current usage for 04/05/16 to 05/04/16 Off Peak +700 kWh (700 kWh from Host's On Peak applied) On Peak +1000 kWh (200 kWh from Host's Off Peak applied and 800 kWh from Host's Int Peak applied) Int Peak +800 kWh (200 kWh from Host's Int Peak applied and 600 kWh from Host's On Peak applied)

Notes:

- 4. BGE applies generation <u>from the host</u> using Off Peak first, then Intermediate and lastly On Peak.
- 5. BGE applies generation to a child in the opposite order (On Peak first, then Intermediate and lastly Off Peak).
- 6. A net metered Child account must first exhaust his own excess generation across all peaks before tapping into the Host's excess generation. A net metered Child will first use any excess generation from his Off peak, then Int Peak and lastly On Peak. This excess generation will be applied first to his On Peak, then Int Peak and lastly Off Peak. Once the Child's excess generation has been exhausted, the Child can receive excess generation from the Host account.

Parent Account (Net Meter TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*87*800*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*100*KH	Generation - Off Peak
MEA*AA*PRQ*100*KH*0*0*41	Total generation, with begin/end readings
QTY*87*500*KH	Generation - On Peak
MEA*AA*PRQ*500*KH*0*0*42	Total consumption, with begin/end readings
QTY*87*200*KH	Generation - Intermediate Peak
MEA*AA*PRQ*200*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
-	Generation Transferred Loop Start period
PTD*BJ	
PTD*BJ DTM*150*20160405	Start period
PTD*BJ DTM*150*20160405 DTM*151*20160504	Start period End period
PTD*BJ DTM*150*20160405 DTM*151*20160504 QTY*QH*500*KH	Start period End period Starting Bank
PTD*BJ DTM*150*20160405 DTM*151*20160504 QTY*QH*500*KH MEA*AF*PRQ*500*KH***41	Start period End period Starting Bank Starting Bank – Off Peak
PTD*BJ DTM*150*20160405 DTM*151*20160504 QTY*QH*500*KH MEA*AF*PRQ*500*KH***41 QTY*QH*1000*KH	Start period End period Starting Bank Starting Bank – Off Peak Starting Bank
PTD*BJ DTM*150*20160405 DTM*151*20160504 QTY*QH*500*KH MEA*AF*PRQ*500*KH***41 QTY*QH*1000*KH MEA*AF*PRQ*1000*KH***42	Start period End period Starting Bank Starting Bank – Off Peak Starting Bank Starting Bank Starting Bank
PTD*BJ DTM*150*20160405 DTM*151*20160504 QTY*QH*500*KH MEA*AF*PRQ*500*KH***41 QTY*QH*1000*KH MEA*AF*PRQ*1000*KH***42 QTY*QH*800*KH	Start period End period Starting Bank Starting Bank – Off Peak Starting Bank Starting Bank Starting Bank – On Peak Starting Bank
PTD*BJ DTM*150*20160405 DTM*151*20160504 QTY*QH*500*KH MEA*AF*PRQ*500*KH***41 QTY*QH*1000*KH MEA*AF*PRQ*1000*KH***42 QTY*QH*800*KH MEA*AF*PRQ*800*KH***43	Start period End period Starting Bank Starting Bank – Off Peak Starting Bank Starting Bank – On Peak Starting Bank Starting Bank Starting Bank Starting Bank
PTD*BJ DTM*150*20160405 DTM*151*20160504 QTY*QH*500*KH MEA*AF*PRQ*500*KH***41 QTY*QH*1000*KH MEA*AF*PRQ*1000*KH***42 QTY*QH*800*KH MEA*AF*PRQ*800*KH***43 QTY*79*0*KH	Start period End period Starting Bank Starting Bank – Off Peak Starting Bank Starting Bank – On Peak Starting Bank Starting Bank – Intermediate Peak Self-generation Applied From Starting Bank
PTD*BJ DTM*150*20160405 DTM*151*20160504 QTY*QH*500*KH MEA*AF*PRQ*500*KH***41 QTY*QH*1000*KH MEA*AF*PRQ*1000*KH***42 QTY*QH*800*KH MEA*AF*PRQ*800*KH***43 QTY*79*0*KH MEA*AF*PRQ*00*KH***41	Start period End period Starting Bank Starting Bank – Off Peak Starting Bank Starting Bank – On Peak Starting Bank Starting Bank – Intermediate Peak Self-generation Applied From Starting Bank Self-generation Applied From Starting Bank to Off Peak
PTD*BJ DTM*150*20160405 DTM*151*20160504 QTY*QH*500*KH MEA*AF*PRQ*500*KH***41 QTY*QH*1000*KH MEA*AF*PRQ*1000*KH***42 QTY*QH*800*KH MEA*AF*PRQ*800*KH***43 QTY*79*0*KH MEA*AF*PRQ*00*KH***41	Start periodEnd periodStarting BankStarting Bank – Off PeakStarting Bank – Off PeakStarting Bank – On PeakStarting Bank – On PeakStarting Bank – Intermediate PeakSelf-generation Applied From Starting BankSelf-generation Applied From Starting Bank to Off PeakSelf-generation Applied From Starting BankSelf-generation Applied From Starting BankSelf-generation Applied From Starting BankSelf-generation Applied From Starting Bank to On PeakSelf-generation Applied From Starting Bank to On PeakSelf-generation Applied From Starting Bank to On PeakSelf-generation Applied From Starting Bank to On Peak
PTD*BJ DTM*150*20160405 DTM*151*20160504 QTY*QH*500*KH MEA*AF*PRQ*500*KH***41 QTY*QH*1000*KH MEA*AF*PRQ*1000*KH***42 QTY*QH*800*KH MEA*AF*PRQ*800*KH***43 QTY*79*0*KH MEA*AF*PRQ*0*KH***41 QTY*79*0*KH MEA*AF*PRQ*00*KH***41 QTY*79*0*KH	Start period End period Starting Bank Starting Bank – Off Peak Starting Bank Starting Bank – On Peak Starting Bank Starting Bank Starting Bank – On Peak Starting Bank Starting Bank Starting Bank Starting Bank Starting Bank Starting Bank Starting Bank – Intermediate Peak Self-generation Applied From Starting Bank Self-generation Applied From Starting Bank to Off Peak Self-generation Applied From Starting Bank Self-generation Applied From Starting Bank

MEA*AF*PRQ*600*KH***41	Generation Transferred Out – Off Peak
QTY*78*1300*KH	Generation Transferred Out
MEA*AF*PRQ*1300*KH***42	Generation Transferred Out – On Peak
QTY*78*1000*KH	Generation Transferred Out
MEA*AF*PRQ*1000*KH***43	Generation Transferred Out – Intermediate Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY*QE*200*KH	Ending Bank
MEA*AF*PRQ*200*KH***42	Ending Bank – On Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***43	Ending Bank – Intermediate Peak

Child #1 (TOU Net Meter)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*700*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*100*KH	Consumption - Off Peak
MEA*AA*PRQ*100*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*400*KH	Consumption - On Peak
MEA*AA*PRQ*400*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*200*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*200*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *0*KH	Starting Bank
MEA*AF*PRQ*0*KH***41	Starting Bank – Off Peak
QTY* <mark>QH</mark> *200*KH	Starting Bank

178

MEA*AF*PRQ*200*KH***42	Starting Bank – On Peak
QTY* <mark>QH</mark> *100*KH	Starting Bank
MEA*AF*PRQ*100*KH***43	Starting Bank – Intermediate Peak
QTY* 79 *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***41	Self-generation Applied From Starting Bank to Off Peak
QTY* 79 *300*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*300*KH***42	Self-generation Applied From Starting Bank to On Peak
QTY* 7 9*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***43	Self-generation Applied From Starting Bank to Intermediate Peak
QTY* 77 *100*KH	Generation Transferred In
MEA*AF*PRQ*100*KH***41	Generation Transferred In – Off Peak
QTY* 77 *100*KH	Generation Transferred In
MEA*AF*PRQ*100*KH***42	Generation Transferred In – On Peak
QTY*77*200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***43	Generation Transferred In – Intermediate Peak
QTY* QE *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY*QE*0*KH	Ending Bank
MEA*AF*PRQ*0*KH***42	Ending Bank – On Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***43	Ending Bank – Intermediate Peak

Child #2 (TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*2500*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*700*KH	Consumption - Off Peak
MEA*AA*PRQ*700*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*1000*KH	Consumption - On Peak

867 Monthly Usage (4010)

179

IG867MUv6-7.docxx

MEA*AA*PRQ*1000*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*800*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*800*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* 77 *700*KH	Generation Transferred In
MEA*AF*PRQ*700*KH***41	Generation Transferred In – Off Peak
QTY* 77 *1000*KH	Generation Transferred In
MEA*AF*PRQ*1000*KH***42	Generation Transferred In – On Peak
QTY*77*800*KH	Generation Transferred In
MEA*AF*PRQ*800*KH***43	Generation Transferred In – Intermediate Peak

BGE Scenario E - Host Net Meter TOU, Child #1 Net Meter TOU (Child uses his own generation to offset current month's consumption. Child's generation is not exhausted). Child #1 receives nothing from the Host account. Child #2 is Non-TOU and receives generation from the Host.

Parent Host Account

Starting Banked amounts for Host Off Peak -300 kWh On Peak -500 kWh Int Peak -400 kWh

Host's current usage for 04/05/16 to 05/04/16 Off Peak -50 kWh On Peak -100 kWh Int Peak -75 kWh

So the host now has the following excess generation to apply to his children: -350 kWh from Off Peak -600 kWh from On Peak -475 kWh from Int Peak

Ending Banked amounts for Host Off Peak 0 kWh On Peak -600 kWh Int Peak -425 kWh

Child #1 (TOU- Net Meter)

Starting Banked amounts for Child # 1 Off Peak 0 kWh On Peak -2000 kWh Int Peak -100 kWh

Current usage for 04/05/16 to 05/04/16 for Child # 1 Off Peak +1000 kWh (1000 kwh from Child's On Peak applied) On Peak +400 kWh (100 kWh from Child's Int Peak applied, 300 kWh from Child's On Peak applied) Int Peak +200 kWh (200 kWh from Child's On Peak applied)

Ending Banked amounts for Child # 1 Off Peak 0 kWh On Peak 500 kWh Int Peak 0 kWh

Child #2 (Non-TOU)

Current usage for 04/05/16 to 05/04/16 is +400 kWh (350 kWh from Host's Off Peak and 50 kWh from Host's Int Peak applied).

Notes:

- 1. BGE applies generation <u>from the host</u> using Off Peak first, then Intermediate and lastly On Peak.
- 2. BGE applies generation to a child in the opposite order (On Peak first, then Intermediate and lastly Off Peak).
- 3. A net metered Child account must first exhaust his own excess generation across all peaks before tapping into the Host's excess generation. A net metered Child will first use any excess generation from his Off peak, then Int Peak and lastly On Peak. This excess generation will be applied first to his On Peak, then Int Peak and lastly Off Peak. Once the Child's excess generation has been exhausted, the Child can receive excess generation from the Host account.

Parent Account (Net Meter TOU)

Tarent Account (Net Meter 100)	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*87*225*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*50*KH	Generation - Off Peak
MEA*AA*PRQ*50*KH*0*0*41	Total generation, with begin/end readings
QTY*87*100*KH	Generation - On Peak
MEA*AA*PRQ*100*KH*0*0*42	Total consumption, with begin/end readings
QTY*87*75*KH	Generation - Intermediate Peak
MEA*AA*PRQ*75*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *300*KH	Starting Bank
MEA*AF*PRQ*300*KH***41	Starting Bank – Off Peak
QTY* <mark>QH</mark> *500*KH	Starting Bank
MEA*AF*PRQ*500*KH***42	Starting Bank – On Peak
QTY* <mark>QH</mark> *400*KH	Starting Bank
MEA*AF*PRQ*400*KH***43	Starting Bank – Intermediate Peak
QTY* 79* 0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***41	Self-generation Applied From Starting Bank to Off Peak
QTY* 79* 0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***42	Self-generation Applied From Starting Bank to On Peak
QTY* 79 *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***43	Self-generation Applied From Starting Bank to Intermediate Peak
QTY*78*350*KH	Generation Transferred Out
MEA*AF*PRQ*350*KH***41	Generation Transferred Out – Off Peak
QTY*78*0*KH	Generation Transferred Out
MEA*AF*PRQ*0*KH***42	Generation Transferred Out – On Peak
867 Monthly Usage	

867 Monthly Usage (4010)

182

QTY* 78 *50*KH	Generation Transferred Out
MEA*AF*PRQ*50*KH***43	Generation Transferred Out – Intermediate Peak
QTY*QE*0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY* <mark>QE</mark> *600*KH	Ending Bank
MEA*AF*PRQ*600*KH***42	Ending Bank – On Peak
QTY*QE*425*KH	Ending Bank
MEA*AF*PRQ*425*KH***43	Ending Bank – Intermediate Peak

Child #1 (TOU Net Meter)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*1600*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*1000*KH	Consumption - Off Peak
MEA*AA*PRQ*1000*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*400*KH	Consumption - On Peak
MEA*AA*PRQ*400*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*200*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*200*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *0*KH	Starting Bank
MEA*AF*PRQ*0*KH***41	Starting Bank – Off Peak
QTY* <mark>QH</mark> *2000*KH	Starting Bank
MEA*AF*PRQ*2000*KH***42	Starting Bank – On Peak
QTY* <mark>QH</mark> *100*KH	Starting Bank
MEA*AF*PRQ*100*KH***43	Starting Bank – Intermediate Peak
QTY*79*1000*KH	Self-Generation

MEA*AF*PRQ*1000*KH***41	Self-Generation Applied to Off Peak
QTY*79*400*KH	Self-Generation
MEA*AF*PRQ*400*KH***42	Self-Generation Applied to On Peak
QTY*79*200*KH	Self-Generation
MEA*AF*PRQ*200*KH***43	Self-Generation Applied to Intermediate Peak
QTY*77*0*KH	Generation Transferred In
MEA*AF*PRQ*0*KH***41	Generation Transferred In – Off Peak
QTY*77*0*KH	Generation Transferred In
MEA*AF*PRQ*0*KH***42	Generation Transferred In – On Peak
QTY*77*0*KH	Generation Transferred In
MEA*AF*PRQ*0*KH***43	Generation Transferred In – Intermediate Peak
QTY* QE *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY* <mark>QE</mark> *500*KH	Ending Bank
MEA*AF*PRQ*500*KH***42	Ending Bank – On Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***43	Ending Bank – Intermediate Peak

Child #2 (Non-TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*400*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*400*KH	Consumption
MEA*AA*PRQ*400*KH*20000*20400*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* 77 *400*KH	Generation Transferred In
MEA*AF*PRQ*400*KH***51	Generation Transferred In – Total Non TOU

BGE Scenario F - Host TOU, Child is TOU and Net Meter. Child applies his own generation to himself first, then receives the remaining available generation from the Host. Child has consumption left over after generation from Host and Child applied to current month's usage.

Parent Host Account

Starting Banked amounts for Host Off Peak -0 kWh On Peak -4900 kWh Int Peak -0 kWh

Host's current usage for 04/05/16 to 05/04/16 Off Peak +500 kWh On Peak +1000 kWh Int Peak +2000 kWh

Host applied 4900 kWh excess generation from On Peak to: 1000 kWh from On Peak, 2000 kWh from Intermediate Peak and lastly to 500 kWh from Off Peak using up 3500 kWh of generation. This leaves 1400 kWh generation from On Peak to apply to his child. Host applied 1100 kWh to Child's On Peak and then 300 kWh to Child's Intermediate Peak. Host has no remaining banked amount in any peak period.

Ending Banked amounts for Host Off Peak 0 kWh On Peak 0 kWh Int Peak 0 kWh

Child (TOU- Net Meter)

Starting Banked amounts for Child Off Peak 0 kWh On Peak -200 kWh Int Peak -100 kWh

Current usage for 04/05/16 to 05/04/16 for Child Off Peak +1000 kWh (Nothing applied from either Child or Host leaving 1000 kwh to be billed) On Peak +1400 kWh (100 kWh from Child's Int Peak applied, 200 kWh from Child's On Peak applied, 1100 kWh from Host's On Peak applied) Int Peak +1200 kWh (300 kWh from Host's On Peak applied, leaving 900 kWh to be billed)

Child has 1900 kWh left to bill at the peak level below. Off Peak = 1000 On Peak = 0 Int Peak = 900

Ending Banked amounts for Child Off Peak 0 kWh On Peak 0 kWh Int Peak 0 kWh

Notes:

- 1. BGE applies generation from the host using Off Peak first, then Intermediate and lastly On Peak.
- 2. BGE applies generation to a child in the opposite order (On Peak first, then Intermediate and lastly Off Peak).
- 3. A net metered Child account must first exhaust his own excess generation across all peaks before tapping into the Host's excess generation. A net metered Child will first use any excess generation from his Off peak, then Int Peak and lastly On Peak. This excess generation will be applied first to his On Peak, then Int Peak and lastly Off Peak. Once the Child's excess generation has been exhausted, the Child can receive excess generation from the Host account.

867 Monthly Usage (4010)

Parent Account (Net Meter TOU)

Tarent Account (Net Meter 100)	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*3500*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*500*KH	Generation - Off Peak
MEA*AA*PRQ*500*KH*0*0*41	Total generation, with begin/end readings
QTY*QD*1000*KH	Generation - On Peak
MEA*AA*PRQ*1000*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*2000*KH	Generation - Intermediate Peak
MEA*AA*PRQ*2000*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *0*KH	Starting Bank
MEA*AF*PRQ*0*KH***41	Starting Bank – Off Peak
QTY* <mark>QH</mark> *4900*KH	Starting Bank
MEA*AF*PRQ*4900*KH***42	Starting Bank – On Peak
QTY* <mark>QH</mark> *0*KH	Starting Bank
MEA*AF*PRQ*0*KH***43	Starting Bank – Intermediate Peak
QTY*79*500*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*500*KH***41	Self-generation Applied From Starting Bank to Off Peak
QTY*79*1000*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*1000*KH***42	Self-generation Applied From Starting Bank to On Peak
QTY*79*2000*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*2000*KH***43	Self-generation Applied From Starting Bank to Intermediate Peak
QTY*78*0*KH	Generation Transferred Out
MEA*AF*PRQ*0*KH***41	Generation Transferred Out – Off Peak
QTY*78*1400*KH	Generation Transferred Out

MEA*AF*PRQ*1400*KH***42	Generation Transferred Out – On Peak
QTY*78*0*KH	Generation Transferred Out
MEA*AF*PRQ*0*KH***43	Generation Transferred Out – Intermediate Peak
QTY*QE*0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY*QE*0*KH	Ending Bank
MEA*AF*PRQ*0*KH***42	Ending Bank – On Peak
QTY*QE*0*KH	Ending Bank
MEA*AF*PRQ*0*KH***43	Ending Bank – Intermediate Peak

Child (TOU Net Meter)	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*1900*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*3600*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*1000*KH	Consumption - Off Peak
MEA*AA*PRQ*1000*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*1400*KH	Consumption - On Peak
MEA*AA*PRQ*1400*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*1200*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*1200*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *0*KH	Starting Bank
MEA*AF*PRQ*0*KH***41	Starting Bank – Off Peak
QTY* <mark>QH</mark> *200*KH	Starting Bank
MEA*AF*PRQ*200*KH***42	Starting Bank – On Peak
QTY* <mark>QH</mark> *100*KH	Starting Bank
MEA*AF*PRQ*100*KH***43	Starting Bank – Intermediate Peak

QTY*79*0*KH	Self-Generation
MEA*AF*PRQ*0*KH***41	Self-Generation Applied to Off Peak
QTY*79*300*KH	Self-Generation
MEA*AF*PRQ*300*KH***42	Self-Generation Applied to On Peak
QTY*79*0*KH	Self-Generation
MEA*AF*PRQ*0*KH***43	Self-Generation Applied to Intermediate Peak
QTY* 77 *0*KH	Generation Transferred In
MEA*AF*PRQ*0*KH***41	Generation Transferred In – Off Peak
QTY* 77 *1100*KH	Generation Transferred In
MEA*AF*PRQ*1100*KH***42	Generation Transferred In – On Peak
QTY* 77 *300*KH	Generation Transferred In
MEA*AF*PRQ*300*KH***43	Generation Transferred In – Intermediate Peak
QTY* QE *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***42	Ending Bank – On Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***43	Ending Bank – Intermediate Peak

BGE Scenario G - Host is TOU, Child # 1 is TOU Net Meter, Child # 2 is TOU. April True-up month. Host has excess generation after the April billing and needs a True-up. Child #1 does not have any excess generation left so there is no True-up. Please note: Since Child #1 does not need a True-up, we will not send the Qty*QB section in the BJ loop.

Parent Host Account

Starting Banked amounts for Host Off Peak -500 kWh On Peak -1000 kWh Int Peak -800 kWh

Host's current usage for 03/05/16 to 04/04/16 Off Peak -100 kWh On Peak -500 kWh Int Peak -200 kWh

So the host now has the following excess generation to apply to his children: -600 kWh from Off Peak -1500 kWh from On Peak -1000 kWh from Int Peak

True-Up amounts for Host (cashed out to customer) Off Peak 0 kWh On Peak 200 kWh Int Peak 0 kWh

Ending Banked amounts for Host Off Peak 0 kWh On Peak 0 kWh Int Peak 0 kWh

Child #1 (TOU- Net Meter)

Starting Banked amounts for Child # 1 Off Peak 0 kWh On Peak -200 kWh Int Peak -100 kWh

Current usage for 03/05/16 to 04/04/16 for Child # 1 Off Peak +100 kWh (100 kwh from Host's Off Peak applied) On Peak +400 kWh (100 kWh from Child's Int Peak applied, 200 kWh from Child's On Peak applied and 100 kWh from Host's Off Peak applied) Int Peak +200 kWh (200 kWh from Host's Off Peak applied)

Ending Banked amounts for Child # 1 Off Peak 0 kWh On Peak 0 kWh Int Peak 0 kWh

Child #2 (TOU)

Current usage for 03/05/16 to 04/04/16 Off Peak +700 kWh (700 kWh from Host's On Peak applied) On Peak +1000 kWh (200 kWh from Host's Off Peak applied and 800 kWh from Host's Int Peak applied) Int Peak +800 kWh (200 kWh from Host's Int Peak applied and 600 kWh from Host's On Peak applied)

Notes:

1. BGE applies generation from the host using Off Peak first, then Intermediate and lastly On Peak.

- 2. BGE applies generation to a child in the opposite order (On Peak first, then Intermediate and lastly Off Peak).
- 3. A net metered Child account must first exhaust his own excess generation across all peaks before tapping into the Host's excess generation. A net metered Child will first use any excess generation from his Off peak, then Int Peak and lastly On Peak. This excess generation will be applied first to his On Peak, then Int Peak and lastly Off Peak. Once the Child's excess generation has been exhausted, the Child can receive excess generation from the Host account.
- 4. During True-Up for TOU, if one TOU peak contains excess generation passed in QTY*QB, all TOU peaks must be sent even when 0 kWh.

DTM*150*20160305Start periodDTM*151*20160404End periodQTY*D1*0*KHMonthly billed KHPTD*SUMetered services Summary loopDTM*150*20160305Start periodDTM*151*20160404End periodQTY*87*800*KHCalculated net KHPTD*PMMeter detail loop	
QTY*D1*0*KH Monthly billed KH PTD*SU Metered services Summary loop DTM*150*20160305 Start period DTM*151*20160404 End period QTY*87*800*KH Calculated net KH	
PTD*SU Metered services Summary loop DTM*150*20160305 Start period DTM*151*20160404 End period QTY*87*800*KH Calculated net KH	
DTM*150*20160305 Start period DTM*151*20160404 End period QTY*87*800*KH Calculated net KH	
DTM*151*20160404 End period QTY*87*800*KH Calculated net KH	
QTY*87*800*KH Calculated net KH	
PTD*PM Meter detail loop	
DTM*150*20160305 Start period	
DTM*151*20160404 End period	
REF*MG*11111111 Meter Number	
REF*JH*A Meter Role	
REF*IX*5.0 Number of dials or digits	
QTY*87*100*KH Generation - Off Peak	
MEA*AA*PRQ*100*KH*0*0*41 Total generation, with begin/end readings	
QTY*87*500*KH Generation - On Peak	
MEA*AA*PRQ*500*KH*0*0*42 Total consumption, with begin/end readings	
QTY*87*200*KH Generation - Intermediate Peak	
MEA*AA*PRQ*200*KH*0*0*43 Total consumption, with begin/end readings	
PTD*BJ Generation Transferred Loop	
DTM*150*20160305 Start period	
DTM*151*20160404 End period	
QTY*QH*500*KH Starting Bank	
MEA*AF*PRQ*500*KH***41 Starting Bank – Off Peak	
QTY*QH*1000*KH Starting Bank	
MEA*AF*PRQ*1000*KH***42 Starting Bank – On Peak	
QTY*QH*800*KH Starting Bank	
MEA*AF*PRQ*800*KH***43 Starting Bank – Intermediate Peak	
QTY*79*0*KH Self-generation Applied From Starting Bank	

Parent Account (Net Meter TOU)

MEA*AF*PRQ*0*KH***41	Self-generation Applied From Starting Bank to Off Peak
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***42	Self-generation Applied From Starting Bank to On Peak
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***43	Self-generation Applied From Starting Bank to Intermediate Peak
QTY* <mark>78</mark> *600*KH	Generation Transferred Out
MEA*AF*PRQ*600*KH***41	Generation Transferred Out – Off Peak
QTY* <mark>78</mark> *1300*KH	Generation Transferred Out
MEA*AF*PRQ*1300*KH***42	Generation Transferred Out – On Peak
QTY* <mark>78</mark> *1000*KH	Generation Transferred Out
MEA*AF*PRQ*1000*KH***43	Generation Transferred Out – Intermediate Peak
QTY* <mark>QB</mark> *0*KH	True-Up
MEA*AF*PRQ*0*KH***41	True-Up – Off Peak
QTY* <mark>QB</mark> *200*KH	True-Up
MEA*AF*PRQ*200*KH***42	True-Up – On Peak
QTY* <mark>QB</mark> *0*KH	True-Up
MEA*AF*PRQ*0*KH***43	True-Up – Intermediate Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY* QE *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***42	Ending Bank – On Peak
QTY* QE *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***43	Ending Bank – Intermediate Peak

Child #1 (TOU Net Meter)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160305	Start period
DTM*151*20160404	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160305	Start period
DTM*151*20160404	End period
QTY*QD*700*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160305	Start period
DTM*151*20160404	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits

QTY*QD*100*KH	Consumption - Off Peak
MEA*AA*PRQ*100*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*400*KH	Consumption - On Peak
MEA*AA*PRQ*400*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*200*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*200*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160305	Start period
DTM*151*20160404	End period
QTY* QH *0*KH	Starting Bank
MEA*AF*PRQ*0*KH***41	Starting Bank – Off Peak
QTY* <mark>QH</mark> *200*KH	Starting Bank
MEA*AF*PRQ*200*KH***42	Starting Bank – On Peak
QTY* <mark>QH</mark> *100*KH	Starting Bank
MEA*AF*PRQ*100*KH***43	Starting Bank – Intermediate Peak
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***41	Self-generation Applied From Starting Bank to Off Peak
QTY*79*300*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*300*KH***42	Self-generation Applied From Starting Bank to On Peak
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***43	Self-generation Applied From Starting Bank to Intermediate Peak
QTY*77*100*KH	Generation Transferred In
MEA*AF*PRQ*100*KH***41	Generation Transferred In – Off Peak
QTY* 77 *100*KH	Generation Transferred In
MEA*AF*PRQ*100*KH***42	Generation Transferred In – On Peak
QTY* 77 *200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***43	Generation Transferred In – Intermediate Peak
QTY* QE *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***42	Ending Bank – On Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank

Child #2 (TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160305	Start period
DTM*151*20160404	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop

DTM*150*20160305	Start period
DTM*151*20160404	End period
QTY*QD*2500*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160305	Start period
DTM*151*20160404	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*700*KH	Consumption - Off Peak
MEA*AA*PRQ*700*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*1000*KH	Consumption - On Peak
MEA*AA*PRQ*1000*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*800*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*800*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160305	Start period
DTM*151*20160404	End period
QTY*77*700*KH	Generation Transferred In
MEA*AF*PRQ*700*KH***41	Generation Transferred In – Off Peak
QTY* 77 *1000*KH	Generation Transferred In
MEA*AF*PRQ*1000*KH***42	Generation Transferred In – On Peak
QTY* 77 *800*KH	Generation Transferred In
MEA*AF*PRQ*800*KH***43	Generation Transferred In – Intermediate Peak

193

BGE Scenario H - Host is TOU, Child # 1 is TOU Net Meter, Child # 2 is TOU. April True-up month. Both Host and Child have excess generation after the April billing and need a True-up.

Parent Host Account

Starting Banked amounts for Host Off Peak -500 kWh On Peak -1000 kWh Int Peak -800 kWh

Host's current usage for 03/05/16 to 04/04/16 Off Peak -100 kWh On Peak -500 kWh Int Peak -200 kWh

So the host now has the following excess generation to apply to his children: -600 kWh from Off Peak -1500 kWh from On Peak -1000 kWh from Int Peak

True-Up amounts for Host (cashed out to customer) Off Peak 0 kWh On Peak 600 kWh Int Peak 0 kWh

Ending Banked amounts for Host Off Peak 0 kWh On Peak 0 kWh Int Peak 0 kWh

Child #1 (TOU- Net Meter)

Starting Banked amounts for Child # 1 Off Peak 0 kWh On Peak -1200 kWh Int Peak -100 kWh

Current usage for 03/05/16 to 04/04/16 for Child # 1 Off Peak +100 kWh (100 kwh from Child's On Peak applied) On Peak +400 kWh (100 kWh from Child's Int Peak applied, 300 kWh from Child's On Peak applied) Int Peak +200 kWh (200 kWh from Child's On Peak applied)

True-Up amounts for Child#1 (cashed out to customer) Off Peak 0 kWh On Peak 600 kWh Int Peak 0 kWh Ending Banked amounts for Child # 1 Off Peak 0 kWh On Peak 0 kWh Int Peak 0 kWh

Child #2 (TOU)

Current usage for 03/05/16 to 04/04/16 Off Peak +700 kWh (700 kWh from Host's On Peak applied) On Peak +1000 kWh (600 kWh from Host's Off Peak applied and 400 kWh from Host's Int Peak applied) Int Peak +800 kWh (600 kWh from Host's Int Peak applied and 200 kWh from Host's On Peak applied)

Notes:

- 1. BGE applies generation <u>from the host</u> using Off Peak first, then Intermediate and lastly On Peak.
- 2. BGE applies generation to a child in the opposite order (On Peak first, then Intermediate and lastly Off Peak).
- 3. A net metered Child account must first exhaust his own excess generation across all peaks before tapping into the Host's excess generation. A net metered Child will first use any excess generation from his Off peak, then Int Peak and lastly On Peak. This excess generation will be applied first to his On Peak, then Int Peak and lastly Off Peak. Once the Child's excess generation has been exhausted, the Child can receive excess generation from the Host account.
- 4. During True-Up for TOU, if one TOU peak contains excess generation passed in QTY*QB, all TOU peaks must be sent even when 0 kWh.

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160305	Start period
DTM*151*20160404	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160305	Start period
DTM*151*20160404	End period
QTY*87*800*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160305	Start period
DTM*151*20160404	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*100*KH	Generation - Off Peak
MEA*AA*PRQ*100*KH*0*0*41	Total generation, with begin/end readings
QTY*87*500*KH	Generation - On Peak
MEA*AA*PRQ*500*KH*0*0*42	Total consumption, with begin/end readings
QTY*87*200*KH	Generation - Intermediate Peak
MEA*AA*PRQ*200*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160305	Start period

Parent Account (Net Meter TOU)

DTM*151*20160404	End period
QTY* QH *500*KH	Starting Bank
MEA*AF*PRQ*500*KH***41	Starting Bank – Off Peak
QTY* <mark>QH</mark> *1000*KH	Starting Bank
MEA*AF*PRQ*1000*KH***42	Starting Bank – On Peak
QTY* <mark>QH</mark> *800*KH	Starting Bank
MEA*AF*PRQ*800*KH***43	Starting Bank – Intermediate Peak
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***41	Self-generation Applied From Starting Bank to Off Peak
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***42	Self-generation Applied From Starting Bank to On Peak
QTY*79*0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***43	Self-generation Applied From Starting Bank to Intermediate Peak
QTY*78*600*KH	Generation Transferred Out
MEA*AF*PRQ*600*KH***41	Generation Transferred Out – Off Peak
QTY*78*900*KH	Generation Transferred Out
MEA*AF*PRQ*900*KH***42	Generation Transferred Out - On Peak
QTY*78*1000*KH	Generation Transferred Out
MEA*AF*PRQ*1000*KH***43	Generation Transferred Out – Intermediate Peak
QTY* <mark>QB</mark> *0*KH	True-Up
MEA*AF*PRQ*0*KH***41	True-Up – Off Peak
QTY* <mark>QB</mark> *600*KH	True-Up
MEA*AF*PRQ*600*KH***42	True-Up – On Peak
QTY*QB*0*KH	True-Up
MEA*AF*PRQ*0*KH***43	True-Up – Intermediate Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***42	Ending Bank – On Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***43	Ending Bank – Intermediate Peak

Child #1 (TOU Net Meter)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160305	Start period
DTM*151*20160404	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160305	Start period

DTM*151*20160404	End period
QTY*QD*700*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160305	Start period
DTM*151*20160404	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*100*KH	Consumption - Off Peak
MEA*AA*PRQ*100*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*400*KH	Consumption - On Peak
MEA*AA*PRQ*400*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*200*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*200*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160305	Start period
DTM*151*20160404	End period
QTY* QH *0*KH	Starting Bank
MEA*AF*PRQ*0*KH***41	Starting Bank – Off Peak
QTY*QH*1200*KH	Starting Bank
MEA*AF*PRQ*1200*KH***42	Starting Bank – On Peak
QTY*QH*100*KH	Starting Bank
MEA*AF*PRQ*100*KH***43	Starting Bank – Intermediate Peak
QTY*79*100*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*100*KH***41	Self-generation Applied From Starting Bank to Off Peak
QTY*79*400*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*400*KH***42	Self-generation Applied From Starting Bank to On Peak
QTY*79*200*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*200*KH***43	Self-generation Applied From Starting Bank to Intermediate Peak
QTY*77*0*KH	Generation Transferred In
MEA*AF*PRQ*0*KH***41	Generation Transferred In – Off Peak
QTY* 77 *0*KH	Generation Transferred In
MEA*AF*PRQ*0*KH***42	Generation Transferred In – On Peak
QTY* 77 *0*KH	Generation Transferred In
MEA*AF*PRQ*0*KH***43	Generation Transferred In – Intermediate Peak
QTY* <mark>QB</mark> *0*KH	True-Up
MEA*AF*PRQ*0*KH***41	True-Up – Off Peak
QTY* <mark>QB</mark> *600*KH	True-Up
MEA*AF*PRQ*600*KH***42	True-Up – On Peak

QTY*QB*0*KH	True-Up
MEA*AF*PRQ*0*KH***43	True-Up – Intermediate Peak
QTY* QE *0*KH	Ending Bank
MEA*AF*PRQ*0*KH***41	Ending Bank – Off Peak
QTY*QE*0*KH	Ending Bank
MEA*AF*PRQ*0*KH***42	Ending Bank – On Peak
QTY*QE*0*KH	Ending Bank
MEA*AF*PRQ*0*KH***43	Ending Bank – Intermediate Peak

Child #2 (TOU)

PTD*BB	Monthly Billed Summary Loop
	Monthly Billed Summary Loop
DTM*150*20160305	Start period
DTM*151*20160404	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160305	Start period
DTM*151*20160404	End period
QTY*QD*2500*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160305	Start period
DTM*151*20160404	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*700*KH	Consumption - Off Peak
MEA*AA*PRQ*700*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*1000*KH	Consumption - On Peak
MEA*AA*PRQ*1000*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*800*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*800*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160305	Start period
DTM*151*20160404	End period
QTY*77*700*KH	Generation Transferred In
MEA*AF*PRQ*700*KH***41	Generation Transferred In – Off Peak
QTY*77*1000*KH	Generation Transferred In
MEA*AF*PRQ*1000*KH***42	Generation Transferred In – On Peak
QTY*77*800*KH	Generation Transferred In
MEA*AF*PRQ*800*KH***43	Generation Transferred In – Intermediate Peak

Maryland (PHI/PE) - Examples of PTD*BJ Loop for Aggregate Net Energy Metering (ANEM), TOU

PHI/PE Scenario A - Host is TOU, Child #1 is Non-TOU, Child #2 is TOU

Parent Host Account Starting Bank = -1200 kWh Off Peak -300 kWh On Peak -500 kWh Int Peak -400 kWh

Current usage for 04/05/16 to 05/04/16 = -225 kWh, 0 kWh Billed Off Peak -50 kWh On Peak -100 kWh Int Peak -75 kWh

Excess generation for family = -1425 kWh -350 kWh from Off Peak -600 kWh from On Peak -475 kWh from Int Peak

Transferred Out = -1000 kWh -200 kWh from Off Peak -600 kWh from On Peak -200 kWh from Int Peak

Ending Bank = -425 kWh Off Peak -150 kWh On Peak 0 kWh Int Peak -275 kWh

Child #1 (NON-TOU)

Current usage for 04/05/16 to 05/04/16 is 400 kWh, -400 kWh applied from ParentHost's On Peak = 0 kWh billed

Child #2 (TOU)

Current usage for 04/05/16 to 05/04/16 = 100 kWh billed Off Peak +200 kWh (200 kwh from ParentHost's Off Peak applied) = 0 kWh On Peak +300 kWh (200 kWh from ParentHost's On Peak applied) = 100 kWh billed Int Peak +200 kWh (200 kWh from ParentHost's Int Peak applied) = 0 kWh

Notes:

- 1. Applies TOU generation using the "waterfall" method. Off Peak to Off Peak, On Peak to On Peak & Intermediate Peak to Intermediate Peak.
- 2. When applying TOU excess generation to a non-TOU account will use the On Peak energy first, followed by the Intermediate Peak and finally the Off-Peak.

Parent Account (Net Meter TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH

PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*87*225*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*100*KH	Consumption - Off Peak
MEA*AA*PRQ*100*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*0*KH	Consumption - On Peak
MEA*AA*PRQ*0*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*200*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*200*KH*0*0*43	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*11111111	Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*150*KH	Generation - Off Peak
MEA*AA*PRQ*150*KH*0*0*41	Total generation, with begin/end readings
QTY*87*100*KH	Generation - On Peak
MEA*AA*PRQ*100*KH*0*0*42	Total generation, with begin/end readings
QTY*87*275*KH	Generation - Intermediate Peak
MEA*AA*PRQ*275*KH*0*0*43	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *300*KH	Starting Bank
MEA*AA*PRQ*300*KH***41	Starting Bank – Off Peak
QTY* <mark>QH</mark> *500*KH	Starting Bank
MEA*AA*PRQ*500*KH***42	Starting Bank – On Peak
QTY* <mark>QH</mark> *400*KH	Starting Bank
MEA*AA*PRQ*400*KH***43	Starting Bank – Intermediate Peak
QTY* <mark>79</mark> *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***41	Self-generation Applied From Starting Bank to Off Peak
QTY* <mark>79</mark> *0*KH	Self-generation Applied From Starting Bank

867 Monthly Usage (4010)

MEA*AF*PRQ*0*KH***42	Self-generation Applied From Starting Bank to On Peak
QTY* <mark>79</mark> *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***43	Self-generation Applied From Starting Bank to Intermediate Peak
QTY* 78 *200*KH	Generation Transferred Out
MEA*AF*PRQ*200*KH***41	Generation Transferred Out - Off Peak
QTY*78*600*KH	Generation Transferred Out
MEA*AF*PRQ*600*KH***42	Generation Transferred Out - On Peak
QTY*78*200*KH	Generation Transferred Out
MEA*AF*PRQ*200*KH***43	Generation Transferred Out – Intermediate Peak
QTY*QE*150*KH	Ending Bank
MEA*AA*PRQ*150*KH***41	Ending Bank – Off Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AA*PRQ*0*KH***42	Ending Bank – On Peak
QTY* QE *275*KH	Ending Bank
MEA*AA*PRQ*275*KH***43	Ending Bank – Intermediate Peak

Child #1 (Non-TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*400*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*400*KH	Consumption
MEA*AA*PRQ*400*KH*20000*20810*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* 77 *400*KH	Generation Transferred In
MEA*AF*PRQ*400*KH***51	Generation Transferred In – Total Non TOU

Child #2 (TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*100*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*100*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*200*KH	Consumption - Off Peak
MEA*AA*PRQ*200*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*300*KH	Consumption - On Peak
MEA*AA*PRQ*300*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*200*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*200*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*77*200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***41	Generation Transferred In – Off Peak
QTY*77*200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***42	Generation Transferred In – On Peak
QTY*77*200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***43	Generation Transferred In – Intermediate Peak

PHI/PE Scenario B - Host is TOU, Child #1 is TOU, Child #2 is Non-TOU

Parent Host Account

Starting Bank = -1200 kWh Off Peak -300 kWh On Peak -500 kWh Int Peak -400 kWh

Current usage for 04/05/16 to 05/04/16 = -225 kWh, 0 kWh Billed Off Peak -50 kWh On Peak -100 kWh Int Peak -75 kWh

Excess generation for family = -1425 kWh -350 kWh from Off Peak -600 kWh from On Peak -475 kWh from Int Peak

Transferred Out = -1100 kWh -200 kWh from Off Peak -600 kWh from On Peak -300 kWh from Int Peak

Ending Bank = -325 kWh Off Peak -150 kWh On Peak 0 kWh Int Peak -175 kWh

Child #1 (TOU)

Current usage for 04/05/16 to 05/04/16, 700 kWh, -700 kWh applied from ParentHost's On Peak = 0 kWh billed Off Peak +200 kWh (200 kwh from ParentHost's Off Peak applied) = 0 kWh On Peak +300 kWh (300 kWh from ParentHost's On Peak applied) = 0 kWh Int Peak +200 kWh (200 kWh from ParentHost's Int Peak applied) = 0 kWh

Child #2 (NON-TOU)

Current usage for 04/05/16 to 05/04/16 is +400 kWh (300 kWh from ParentHost's On Peak and 100 kWh from ParentHost's Int Peak applied)

Notes:

- 1. Applies TOU generation using the "waterfall" method. Off Peak to Off Peak, On Peak to On Peak & Intermediate Peak to Intermediate Peak.
- 2. When applying TOU excess generation to a non-TOU account PHI will use the On Peak energy first, followed by the Intermediate Peak and finally the Off-Peak.

Parent Account (Net Meter TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*87*225*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*1X*5.0	Number of dials or digits
QTY*QD*300*KH	Consumption - Off Peak
MEA*AA*PRQ*300*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*400*KH	Consumption - On Peak
MEA*AA*PRQ*400*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*325*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*325*KH*0*0*43	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*350*KH	Generation - Off Peak
MEA*AA*PRQ*350*KH*0*0*41	Total generation, with begin/end readings
QTY*87*500*KH	Generation - On Peak
MEA*AA*PRQ*500*KH*0*0*42	Total generation, with begin/end readings
QTY*87*400*KH	Generation - Intermediate Peak
MEA*AA*PRQ*400*KH*0*0*43	
	Total generation, with begin/end readings
PTD*BJ	Total generation, with begin/end readings Generation Transferred Loop
PTD*BJ DTM*150*20160405	
	Generation Transferred Loop
DTM*150*20160405	Generation Transferred Loop Start period
DTM*150*20160405 DTM*151*20160504	Generation Transferred Loop Start period End period
DTM*150*20160405 DTM*151*20160504 QTY* QH *300*KH	Generation Transferred Loop Start period End period Starting Bank
DTM*150*20160405 DTM*151*20160504 QTY* QH *300*KH MEA*AA*PRQ*300*KH***41	Generation Transferred Loop Start period End period Starting Bank Starting Bank – Off Peak

867 Monthly Usage (4010)

MEA*AA*PRQ*400*KH***43	Starting Bank – Intermediate Peak
QTY* <mark>79</mark> *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***41	Self-generation Applied From Starting Bank to Off Peak
QTY* <mark>79</mark> *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***42	Self-generation Applied From Starting Bank to On Peak
QTY* <mark>79</mark> *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***43	Self-generation Applied From Starting Bank to Intermediate Peak
QTY* 78 *200*KH	Generation Transferred Out
MEA*AF*PRQ*200*KH***41	Generation Transferred Out – Off Peak
QTY* <mark>78</mark> *600*KH	Generation Transferred Out
MEA*AF*PRQ*600*KH***42	Generation Transferred Out – On Peak
QTY* <mark>78</mark> *300*KH	Generation Transferred Out
MEA*AF*PRQ*300*KH***43	Generation Transferred Out – Intermediate Peak
QTY*QE*150*KH	Ending Bank
MEA*AA*PRQ*150*KH***41	Ending Bank – Off Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AA*PRQ*0*KH***42	Ending Bank – On Peak
QTY* <mark>QE</mark> *175*KH	Ending Bank
MEA*AA*PRQ*175*KH***43	Ending Bank – Intermediate Peak

Child #1 (TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*700*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*200*KH	Consumption - Off Peak
MEA*AA*PRQ*200*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*300*KH	Consumption - On Peak
MEA*AA*PRQ*300*KH*0*0*42	Total consumption, with begin/end readings

QTY*QD*200*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*200*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*77*200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***41	Generation Transferred In – Off Peak
QTY*77*300*KH	Generation Transferred In
MEA*AF*PRQ*300*KH***42	Generation Transferred In – On Peak
QTY*77*200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***43	Generation Transferred In – Intermediate Peak

Child #2 (Non-TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*400*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*400*KH	Consumption
MEA*AA*PRQ*400*KH*20000*20400*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* 77 *400*KH	Generation Transferred In
MEA*AF*PRQ*400*KH***51	Generation Transferred In – Total Non TOU

PHI/PE Scenario C - Host is TOU, Child # 1 is TOU, Child # 2 is TOU (Host's generation is exhausted on Child # 2)

Parent Host Account

Starting Bank = -1200 kWh Off Peak -300 kWh On Peak -500 kWh Int Peak -400 kWh

Current usage for 04/05/16 to 05/04/16 = -225 kWh, 0 kWh Billed Off Peak -50 kWh On Peak -100 kWh Int Peak -75 kWh

Excess generation for family = -1425 kWh -350 kWh from Off Peak -600 kWh from On Peak -475 kWh from Int Peak

Transferred Out = -1425 kWh -350 kWh from Off Peak -600 kWh from On Peak -475 kWh from Int Peak

Ending Bank = 0 kWh Off Peak 0 kWh On Peak 0 kWh Int Peak 0 kWh

Child #1 (TOU)

Current usage for 04/05/16 to 05/04/16 (700 kWh, -700kWh applied = 0 kWh billed) Off Peak +200 kWh (200 kwh from ParentHost's Off Peak applied) = 0 kWh On Peak +300 kWh (300 kWh from ParentHost's On Peak applied) = 0 kWh Int Peak +200 kWh (200 kWh from ParentHost's Int Peak applied) = 0 kWh

Child #2 (TOU)

Current usage for 04/05/16 to 05/04/16 (1200 kWh, -725kWh applied = 475 kWh billed) Off Peak +300 kWh (150 kwh from ParentHost's Off Peak applied) = 150 kWh billed On Peak +500 kWh (300 kwh from ParentHost's Off Peak applied) = 200 kWh billed Int Peak +400 kWh (275 kwh from ParentHost's Int Peak applied) = 125 kWh billed

Note: Applies TOU generation using the "waterfall" method. Off Peak to Off Peak, On Peak to On Peak & Intermediate Peak to Intermediate Peak.

Parent Account (Net Meter TOU)

Tarent Account (Net Meter 100)	
PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*87*225*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*300*KH	Consumption - Off Peak
MEA*AA*PRQ*300*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*1000*KH	Consumption - On Peak
MEA*AA*PRQ*1000*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*275*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*275*KH*0*0*43	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*11111111	Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*350*KH	Generation - Off Peak
MEA*AA*PRQ*350*KH*0*0*41	Total generation, with begin/end readings
QTY*87*1100*KH	Generation - On Peak
MEA*AA*PRQ*1100*KH*0*0*42	Total consumption, with begin/end readings
QTY*87*350*KH	Generation - Intermediate Peak
MEA*AA*PRQ*350*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *300*KH	Starting Bank
MEA*AA*PRQ*300*KH***41	Starting Bank – Off Peak
QTY*QH*500*KH	Starting Bank
MEA*AA*PRQ*500*KH***42	Starting Bank – On Peak
867 Monthly Usage (401	0) 208 IG867MUv6-7 docx

867 Monthly Usage (4010)

208

QTY* <mark>QH</mark> *400*KH	Starting Bank
MEA*AA*PRQ*400*KH***43	Starting Bank – Intermediate Peak
QTY* <mark>79</mark> *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***41	Self-generation Applied From Starting Bank to Off Peak
QTY* <mark>79</mark> *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***42	Self-generation Applied From Starting Bank to On Peak
QTY* <mark>79</mark> *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***43	Self-generation Applied From Starting Bank to Intermediate Peak
QTY*78*350*KH	Generation Transferred Out
MEA*AF*PRQ*350*KH***41	Generation Transferred Out – Off Peak
QTY*78*600*KH	Generation Transferred Out
MEA*AF*PRQ*600*KH***42	Generation Transferred Out – On Peak
QTY* <mark>78</mark> *475*KH	Generation Transferred Out
MEA*AF*PRQ*475*KH***43	Generation Transferred Out – Intermediate Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AA*PRQ*0*KH***41	Ending Bank – Off Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AA*PRQ*0*KH***42	Ending Bank – On Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AA*PRQ*0*KH***43	Ending Bank – Intermediate Peak

Child #1 (TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*700*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*200*KH	Consumption - Off Peak
MEA*AA*PRQ*200*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*300*KH	Consumption - On Peak
MEA*AA*PRQ*300*KH*0*0*42	Total consumption, with begin/end readings
867 Monthly Usage (4	010) 209 IG867MUv6-7.doo

QTY*QD*200*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*200*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*77*200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***41	Generation Transferred In – Off Peak
QTY*77*300*KH	Generation Transferred In
MEA*AF*PRQ*300*KH***42	Generation Transferred In – On Peak
QTY*77*200*KH	Generation Transferred In
MEA*AF*PRQ*200*KH***43	Generation Transferred In – Intermediate Peak

Child #2 (TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*475*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*1200*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*300*KH	Consumption - Off Peak
MEA*AA*PRQ*300*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*500*KH	Consumption - On Peak
MEA*AA*PRQ*500*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*400*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*400*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* 77 *150*KH	Generation Transferred In
MEA*AF*PRQ*150*KH***41	Generation Transferred In – Off Peak
QTY* 77 *300*KH	Generation Transferred In
MEA*AF*PRQ*300*KH***42	Generation Transferred In – On Peak

867 Monthly Usage (4010)

210

QTY* 77 *275*KH	Generation Transferred In
MEA*AF*PRQ*275*KH***43	Generation Transferred In – Intermediate Peak

PHI/PE Scenario D - ParentHost TOU & current period is net consumption. Starting bank contains single TOU

Parent Host Account (TOU)

Starting Banked amounts for Host Off Peak 0 kWh On Peak -4900 kWh Int Peak 0 kWh

Host's current usage for 04/05/16 to 05/04/16 = 3500 kWh Off Peak +500 kWh On Peak +1000 kWh Int Peak +2000 kWh

Self-generation applied to Host (-1000 kWh On Peak applied, 500 kWh Off Peak & 2000 kWh Int Peak remain) = $\frac{2500 \text{ kwh Billed}}{\text{Off Peak 0 kWh}} = 500 \text{ kWh}$ On Peak -1000 kWh = 0 kWh Int Peak 0 kWh = 2000 kWh

Excess generation for family = -3900 kWh 0 kWh from Off Peak -3900 kWh from On Peak 0 kWh from Int Peak

Transferred Out = -1000 kWh 0 kWh from Off Peak -1000 kWh from On Peak 0 kWh from Int Peak

Ending Bank = -2900 kWh Off Peak 0 kWh On Peak -2900 kWh Int Peak 0 kWh

Child #1 (TOU)

Current usage for 04/05/16 to 05/04/16, 2600 kWh, -1000 kWh applied from ParentHost = 1600 kWh billed Off Peak +800 kWh = 800 kWh billed On Peak +1000 kWh (1000 kWh from Host's On Peak applied) = 0 kWh Int Peak +800 kWh = 800 kWh billed

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*2500*KH	Monthly billed KH

ParentHost Account (Net Meter TOU)

PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*3500*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*1500*KH	Consumption - Off Peak
MEA*AA*PRQ*1500*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*2000*KH	Consumption - On Peak
MEA*AA*PRQ*2000*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*2600*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*2600*KH*0*0*43	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*1000*KH	Generation - Off Peak
MEA*AA*PRQ*1000*KH*0*0*41	Total generation, with begin/end readings
QTY*87*1000*KH	Generation - On Peak
MEA*AA*PRQ*1000*KH*0*0*42	Total generation, with begin/end readings
QTY*87*600*KH	Generation - Intermediate Peak
MEA*AA*PRQ*600*KH*0*0*43	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *0*KH	Starting Bank
MEA*AA*PRQ*0*KH***41	Starting Bank – Off Peak
QTY* <mark>QH</mark> *4900*KH	Starting Bank
MEA*AA*PRQ*4900*KH***42	Starting Bank – On Peak
QTY* <mark>QH</mark> *0*KH	Starting Bank
MEA*AA*PRQ*0*KH***43	Starting Bank – Intermediate Peak
QTY* <mark>79</mark> *0*KH	Self-generation Applied From Starting Bank

MEA*AF*PRQ*0*KH***41	Self-generation Applied From Starting Bank to Off Peak
QTY* <mark>79</mark> *1000*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*1000*KH***42	Self-generation Applied From Starting Bank to On Peak
QTY* <mark>79</mark> *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***43	Self-generation Applied From Starting Bank to Intermediate Peak
QTY* <mark>78</mark> *0*KH	Generation Transferred Out
MEA*AF*PRQ*0*KH***41	Generation Transferred Out – Off Peak
QTY* 78 *1000*KH	Generation Transferred Out
MEA*AF*PRQ*1000*KH***42	Generation Transferred Out – On Peak
QTY*78*0*KH	Generation Transferred Out
MEA*AF*PRQ*0*KH***43	Generation Transferred Out – Intermediate Peak
QTY* QE *0*KH	Ending Bank
MEA*AA*PRQ*0*KH***41	Ending Bank – Off Peak
QTY* QE *2900*KH	Ending Bank
MEA*AA*PRQ*2900*KH***42	Ending Bank – On Peak
QTY*QE*0*KH	Ending Bank
MEA*AA*PRQ*0*KH***43	Ending Bank – Intermediate Peak

Child #1 (TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*1600*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*2600*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*800*KH	Consumption - Off Peak
MEA*AA*PRQ*800*KH*0*0*41	Total consumption, with begin/end readings

QTY*QD*1000*KH	Consumption - On Peak
MEA*AA*PRQ*1000*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*800*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*800*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*77*0*KH	Generation Transferred In
MEA*AF*PRQ*0*KH***41	Generation Transferred In – Off Peak
QTY*77*1000*KH	Generation Transferred In
MEA*AF*PRQ*1000*KH***42	Generation Transferred In – On Peak
QTY* 77 *0*KH	Generation Transferred In
MEA*AF*PRQ*0*KH***43	Generation Transferred In – Intermediate Peak

PHI Scenario E - ParentHost is TOU, Parent is TOU, Child is TOU (only PHI uses Parent accounts)

Parent Host Account

Starting Bank = -2300 kWh Off Peak -500 kWh On Peak -1000 kWh Int Peak -800 kWh

Current usage for 04/05/16 to 05/04/16 = -1800 kWh, 0 kWh Billed Off Peak -100 kWh On Peak -1500 kWh Int Peak -200 kWh

Transferred In (from Parent) = -800 kWh -100 kWh from Off Peak -500 kWh from On Peak -200 kWh from Int Peak

Excess generation for family = -4900 kWh (sum of Starting Bank, Current Period Excess & transferred in from Parent) -700 kWh from Off Peak -3000 kWh from On Peak -1200 kWh from Int Peak

Transferred Out = -2500 kWh -700 kWh from Off Peak -1000 kWh from On Peak -800 kWh from Int Peak

Ending Bank = -2400 kWh Off Peak 0 kWh On Peak -2000 kWh Int Peak -400 kWh

Parent Account TOU w/Net Meter (does not utilize starting or ending bank, all excess transfers out to ParentHost)

Current usage for 04/05/16 to 05/04/16 = -800 kWh, 0 kWh Billed Off Peak -100 kWh On Peak -500 kWh Int Peak -200 kWh

Transferred Out (to ParentHost into Generation available for family) = -800 kWh -100 kWh from Off Peak -500 kWh from On Peak -200 kWh from Int Peak

Child #1 (TOU)

Current usage for 04/05/16 to 05/04/16, 2600 kWh, -2500 kWh applied from ParentHost = 100 kWh billed Off Peak +800 kWh (700 kWh from Host's Off Peak applied) = 100 kWh billed On Peak +1000 kWh (1000 kWh from Host's On Peak applied) = 0 kWh Int Peak +800 kWh (800 kWh from Host's Int Peak applied) = 0 kWh

Notes:

1. Applies TOU generation using the "waterfall" method. Off Peak to Off Peak, On Peak to On Peak & Intermediate Peak to Intermediate Peak.

2. For TOU Parent, excess generation from an individual peak period transfers to ParentHost's available generation.

ParentHost Account (Net Meter TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*87*800*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*500*KH	Consumption - Off Peak
MEA*AA*PRQ*500*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*1500*KH	Consumption - On Peak
MEA*AA*PRQ*1500*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*600*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*600*KH*0*0*43	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*600*KH	Generation - Off Peak
MEA*AA*PRQ*600*KH*0*0*41	Total generation, with begin/end readings
QTY*87*3000*KH	Generation - On Peak
MEA*AA*PRQ*3000*KH*0*0*42	Total generation, with begin/end readings
QTY*87*800*KH	Generation - Intermediate Peak
MEA*AA*PRQ*800*KH*0*0*43	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period

DTM*151*20160504	End period
QTY* QH *500*KH	Starting Bank
MEA*AA*PRQ*500*KH***41	Starting Bank – Off Peak
QTY*QH*1000*KH	Starting Bank
MEA*AA*PRQ*1000*KH***42	Starting Bank – On Peak
QTY* <mark>QH</mark> *800*KH	Starting Bank
MEA*AA*PRQ*800*KH***43	Starting Bank – Intermediate Peak
QTY* <mark>79</mark> *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***41	Self-generation Applied From Starting Bank to Off Peak
QTY* <mark>79</mark> *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***42	Self-generation Applied From Starting Bank to On Peak
QTY* <mark>79</mark> *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***43	Self-generation Applied From Starting Bank to Intermediate Peak
QTY* <mark>7</mark> 7*100*KH	Generation Transferred In – From Parent
MEA*AF*PRQ*100*KH***41	Generation Transferred In – Off Peak
QTY* <mark>7</mark> 7*500*KH	Generation Transferred In – From Parent
MEA*AF*PRQ*500*KH***42	Generation Transferred In – On Peak
QTY* <mark>7</mark> 7*200*KH	Generation Transferred In – From Parent
MEA*AF*PRQ*200*KH***43	Generation Transferred In – Intermediate Peak
QTY* <mark>78</mark> *700*KH	Generation Transferred Out
MEA*AF*PRQ*700*KH***41	Generation Transferred Out – Off Peak
QTY* 78 *1000*KH	Generation Transferred Out
MEA*AF*PRQ*1000*KH***42	Generation Transferred Out – On Peak
QTY* <mark>78</mark> *800*KH	Generation Transferred Out
MEA*AF*PRQ*800*KH***43	Generation Transferred Out – Intermediate Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AA*PRQ*0*KH***41	Ending Bank – Off Peak
QTY* QE *2000*KH	Ending Bank
MEA*AA*PRQ*2000*KH***42	Ending Bank – On Peak
QTY* <mark>QE</mark> *400*KH	Ending Bank
MEA*AA*PRQ*400*KH***43	Ending Bank – Intermediate Peak

Parent #1 (Net Meter)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH

PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*87*800*KH	Calculated net KH
РТД*РМ	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*400*KH	Consumption - Off Peak
MEA*AA*PRQ*400*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*100*KH	Consumption - On Peak
MEA*AA*PRQ*100*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*200*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*200*KH*0*0*43	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*500*KH	Generation - Off Peak
MEA*AA*PRQ*500*KH*0*0*41	Total generation, with begin/end readings
QTY*87*1100*KH	Generation - On Peak
MEA*AA*PRQ*1100*KH*0*0*42	Total generation, with begin/end readings
QTY*87*400*KH	Generation - Intermediate Peak
MEA*AA*PRQ*400*KH*0*0*43	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* <mark>7</mark> 7*0*KH	Generation Transferred In – From ParentHost
MEA*AF*PRQ*0*KH***41	Generation Transferred In – Off Peak
QTY* <mark>7</mark> 7*0*KH	Generation Transferred In – From ParentHost
MEA*AF*PRQ*0*KH***42	Generation Transferred In – On Peak
QTY* <mark>7</mark> 7*0*KH	Generation Transferred In – From ParentHost

MEA*AF*PRQ*0*KH***43	Generation Transferred In – Intermediate Peak
QTY* <mark>78</mark> *100*KH	Generation Transferred Out – To ParentHost
MEA*AF*PRQ*100*KH***41	Generation Transferred Out – Off Peak
QTY* <mark>78</mark> *500*KH	Generation Transferred Out - To ParentHost
MEA*AF*PRQ*500*KH***42	Generation Transferred Out – On Peak
QTY* <mark>78</mark> *200*KH	Generation Transferred Out - To ParentHost
MEA*AF*PRQ*200*KH***43	Generation Transferred Out – Intermediate Peak

Child #1 (TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*100*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*2600*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*800*KH	Consumption - Off Peak
MEA*AA*PRQ*800*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*1000*KH	Consumption - On Peak
MEA*AA*PRQ*1000*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*800*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*800*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* 77 *700*KH	Generation Transferred In
MEA*AF*PRQ*700*KH***41	Generation Transferred In – Off Peak
QTY*77*1000*KH	Generation Transferred In

MEA*AF*PRQ*1000*KH***42	Generation Transferred In – On Peak
QTY*77*800*KH	Generation Transferred In
MEA*AF*PRQ*800*KH***43	Generation Transferred In – Intermediate Peak

PHI Scenario F - ParentHost is TOU, Parent #1 is TOU, Parent #2 is non-TOU, Child #1 is TOU, Child #2 is non-TOU (only PHI uses Parent accounts)

Parent Host Account

Starting Bank = -2300 kWh Off Peak -500 kWh On Peak -1000 kWh Int Peak -800 kWh

Current usage for 04/05/16 to 05/04/16 = -800 kWh, 0 kWh Billed Off Peak -100 kWh On Peak -1500 kWh Int Peak -200 kWh

Transferred In (from Parent #1 & Parent #2) = -1000 kWh -800 kWh from Off Peak (from Parent #2) -200 kWh from On Peak (from Parent #1) 0 kWh from Int Peak

Excess generation for family = -5100 kWh (sum of Starting Bank, Current Period Excess & transferred in from Parent) -1400 kWh from Off Peak

-2700 kWh from On Peak -1000 kWh from Int Peak

Transferred Out = -5100 kWh -1400 kWh from Off Peak -2700 kWh from On Peak -1000 kWh from Int Peak

Ending Bank = 0 kWh Off Peak 0 kWh On Peak 0 kWh Int Peak 0 kWh

Parent Account #1: TOU w/Net Meter (does not utilize starting or ending bank, all excess transfers out to ParentHost)

Current usage for 04/05/16 to 05/04/16 = 300 kWh, -300 applied from ParentHost, -200 transferred out = 0 kWh billed Off Peak +100 kWh (100 kWh from Host's Off Peak applied) = 0 kWh On Peak -200 kWh (200 kWh transferred out to Host, see below) = 0 kWh Int Peak +200 kWh (200 kWh from Host's Int Peak applied) = 0 kWh

Transferred Out (to ParentHost into Generation available for family) = -200 kWh 0 kWh from Off Peak -200 kWh from On Peak 0 kWh from Int Peak

Parent Account #2: non-TOU w/Net Meter (does not utilize starting or ending bank, all excess transfers out to ParentHost)

Current usage for 04/05/16 to 05/04/16 = -800 kWh, 0 kWh Billed -800 kWh Transferred Out (to ParentHost into Generation available for family) = -800 kWh -800 kWh

Child #1 (TOU)

Current usage for 04/05/16 to 05/04/16, 2600 kWh, -2600 kWh applied from ParentHost = 0 kWh billed

Off Peak +800 kWh (800 kWh from Host's Off Peak applied) = 0 kWh On Peak +1000 kWh (1000 kWh from Host's On Peak applied) = 0 kWh Int Peak +800 kWh (800 kWh from Host's Int Peak applied) = 0 kWh

Child #2 (NON-TOU)

Current usage for 04/05/16 to 05/04/16 is 4000 kWh, -1700 kWh applied from ParentHost's On Peak, 0 kWh applied from ParentHost's Int Peak, -500 kWh applied from ParentHost's Off Peak = 1800 kWh billed

Notes:

- 1. Applies TOU generation using the "waterfall" method. Off Peak to Off Peak, On Peak to On Peak & Intermediate Peak to Intermediate Peak.
- 2. For TOU Parent, excess generation from an individual peak period transfers to ParentHost's individual peak
- 3. For non-TOU Parent, excess generation transfers to TOU ParentHost's Off Peak level
- 4. When applying TOU excess generation to a non-TOU account will use the On Peak energy first, followed by the Intermediate Peak and finally the Off-Peak.

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*87*800*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*500*KH	Consumption - Off Peak
MEA*AA*PRQ*500*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*1500*KH	Consumption - On Peak
MEA*AA*PRQ*1500*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*600*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*600*KH*0*0*43	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number

ParentHost Account (Net Meter TOU)

867 Monthly Usage (4010)

REF*IX*5.0Number of dials or digitsQTV*87*600*KHGeneration - Off PeakMEA*AA*PRQ*600*KH*0*0*41Total generation, with begin/end readingsQTV*87*800*KHGeneration - On PeakMEA*AA*PRQ*3000*KH*0*0*42Total generation, with begin/end readingsQTV*87*800*KH*0*0*43Total generation, with begin/end readingsPTD*BJGeneration - Intermediate PeakMEA*AA*PRQ*500*KH*0*0*43Total generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodQTV*QH*500*KHStarting BankMEA*AA*PRQ*500*KH***41Starting BankMEA*AA*PRQ*1000*KHStarting BankMEA*AA*PRQ*1000*KH***42Starting BankQTV*QH*800*KH***43Starting BankQTY*QH*800*KH***43Starting BankMEA*AA*PRQ*000*KH***43Starting BankMEA*APPRQ*00*KH***41Self-generation Applied From Starting BankMEA*APPRQ*00*KH***42Self-generation Applied From Starting BankMEA*APPRQ*00*KH***43Self-generation Applied From Starting BankMEA*APPRQ*00*KH***43Self-generation Applied From Starting Bank to Off PeakQTV*§*0*KHSelf-generation Applied From Starting Bank to Off PeakQTY*§*0*KHGeneration Transferred In - From ParentMEA*APPRQ*0*KH***43Generation Transferred In - On PeakQTV*§*0*KHGeneration Transferred In - On PeakQTV*§*0*KHGeneration Transferred In - On PeakQTV*§*0*CHGeneration Transferred In - Intermediate PeakQTV*§*1400*KHGeneration Transfe	REF*JH*S	Meter Role
NNMEA*AA*PRQ*600*KH*0*0*41Total generation, with begin/end readingsQTY*87*3000*KHGeneration - On PeakMEA*AA*PRQ*3000*KH*0*0*42Total generation, with begin/end readingsQTY*87*800*KHGeneration - Intermediate PeakMEA*AA*PRQ*800*KH*0*0*43Total generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodQTY*QH*500*KHStarting BankMEA*AA*PRQ*500*KH***41Starting Bank - Off PeakQTY*QH*1000*KHStarting Bank - Off PeakQTY*QH*000*KHStarting Bank - On PeakQTY*QH*000*KHStarting BankMEA*AA*PRQ*000*KH***43Starting BankMEA*AA*PRQ*000*KH***44Self-generation Applied From Starting BankMEA*AA*PRQ*00*KH***41Self-generation Applied From Starting BankMEA*AA*PRQ*00*KH***42Self-generation Applied From Starting BankOTY*D*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***42Self-generation Applied From Starting BankOTY*D*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***43Self-generation Applied From Starting BankOTY*D*0*KHGeneration Transferred In - Om PeakQTY*D*0*KHGeneration Transferred In - Om PeakQTY*D*0*KHGeneration Transferred In - Om PeakQTY*D*20*KHGeneration Tra	REF*IX*5.0	Number of dials or digits
QTY*87*3000*KHGeneration - On PeakMEA*AA*PRQ*3000*KH*0*0*42Total generation, with begin/end readingsQTY*87*800*KHGeneration - Intermediate PeakMEA*AA*PRQ*800*KH*0*0*43Total generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodDTM*150*20160405Start periodQTY*0#*500*KHStarting BankMEA*AA*PRQ*500*KH**41Starting BankQTY*0#*500*KHStarting BankMEA*AA*PRQ*1000*KH**42Starting BankQTY*0#*800*KHStarting BankOTY*0#*800*KHStarting BankMEA*AA*PRQ*800*KH**43Starting BankQTY*0#*800*KHSelf-generation Applied From Starting BankQTY*0#*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***41Self-generation Applied From Starting BankQTY*0#*0*KHSelf-generation Applied From Starting Bank to Off PeakQTY*0#*0*KHSelf-generation Applied From Starting Bank to Onf PeakQTY*0#*0*KHSelf-generation Applied From Starting Bank to Onf PeakQTY*0#*0*KHGeneration Transferred InFrom ParentMEA*AF*PRQ*0*KH***42Self-generation Applied From Starting Bank to Intermediate PeakQTY*0#*0*KHGeneration Transferred InOn PeakQTY*0#*0*KHGeneration Transferred InOn PeakQTY*0#*0*KHGeneration Transferred OutMEA*AF*PRQ*00*KH***43Generation Transferred OutMEA*AF*PRQ*00*KH***44Generation Transferred OutMEA*AF*PRQ*00*KH***45Generation Transferred Out <td>QTY*87*600*KH</td> <td>Generation - Off Peak</td>	QTY*87*600*KH	Generation - Off Peak
NNEA*AA*PRQ*3000*KH*0*0*42Total generation, with begin/end readingsQTY*87*800*KHGeneration - Intermediate PeakMEA*AA*PRQ*800*KH*0*0*43Total generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodDTM*151*20160504End periodQTY*QH*500*KHStarting BankMEA*AA*PRQ*500*KH***41Starting BankMEA*AA*PRQ*1000*KHStarting BankQTY*QH*1000*KHStarting BankMEA*AA*PRQ*1000*KH***42Starting BankQTY*QH*800*KHStarting BankMEA*AA*PRQ*1000*KH***43Starting BankMEA*AA*PRQ*00*KH***41Self-generation Applied From Starting BankQTY*Q*0*KHSelf-generation Applied From Starting BankMEA*AFPRQ*0*KH***41Self-generation Applied From Starting BankMEA*AFPRQ*0*KH***42Self-generation Applied From Starting BankMEA*AFPRQ*0*KH***43Self-generation Applied From Starting BankMEA*AFPRQ*0*KHSelf-generation Applied From Starting BankMEA*AFPRQ*0*KHSelf-generation Applied From Starting BankMEA*AFPRQ*0*KHSelf-generation Applied From Starting BankMEA*AFPRQ*0*KHSelf-generation Applied From Starting BankMEA*AFPRQ*0*KHGeneration Transferred In - Or PeakQT************************************	MEA*AA*PRQ*600*KH*0*0*41	Total generation, with begin/end readings
QTY*87*800*KHGeneration - Intermediate PeakMEA*AA*PRQ*800*KH*0*0*43Total generation - intermediate PeakMEA*AA*PRQ*800*KH*0*0*43Total generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodQTY*QH*500*KHStarting BankMEA*AA*PRQ*500*KH***41Starting BankQTY*QH*1000*KHStarting BankMEA*AA*PRQ*1000*KH***42Starting BankQTY*QH*000*KHStarting BankMEA*AA*PRQ*000*KH***43Starting BankQTY*QH*800*KHStarting BankMEA*AA*PRQ*800*KH***43Starting BankQTY*QH*800*KHSelf-generation Applied From Starting BankMEA*AA*PRQ*00*KH***41Self-generation Applied From Starting Bank to Off PeakQTY*Q*0*KHSelf-generation Applied From Starting Bank to Off PeakQTY*P*0*0*KHSelf-generation Applied From Starting Bank to Onf PeakQTY*P*0*0*KHSelf-generation Applied From Starting Bank to Onf PeakQTY*P*0*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***42Self-generation Applied From Starting Bank to Intermediate PeakQTY*P*0*0*KHGeneration Transferred In - From ParentMEA*AF*PRQ*00*KH***43Generation Transferred In - From ParentMEA*AF*PRQ*00*KHGeneration Transferred OutMEA*AF*PRQ*00*KH***43Generation Transferred OutMEA*AF*PRQ*00*KHGeneration Transferred OutMEA*AF*PRQ*00*KHGeneration Transferred OutMEA*AF*PRQ*00*KHGeneration Transferred OutMEA*AF*PRQ*00*KH<	QTY*87*3000*KH	Generation - On Peak
NEA*AA*PRQ*800*KH*0*0*43Total generation, with begin/end readingsPTD*BJGeneration Transferred LoopDTM*150*20160405Start periodQTY*QH*500*KHStart periodQTY*QH*500*KHStarting BankMEA*AA*PRQ*500*KH***41Starting BankQTY*QH*1000*KHStarting BankMEA*AA*PRQ*500*KH***42Starting BankQTY*QH*1000*KHStarting BankMEA*AA*PRQ*000*KH***43Starting BankQTY*QH*800*KHStarting BankMEA*AA*PRQ*800*KHStarting BankMEA*AA*PRQ*800*KHStarting BankMEA*AA*PRQ*800*KHSelf-generation Applied From Starting BankQTY*Q*0*KHSelf-generation Applied From Starting Bank to Off PeakQTY*Q*0*KHSelf-generation Applied From Starting Bank to Off PeakQTY*Q*0*KHSelf-generation Applied From Starting Bank to Off PeakQTY*Q*0*KHSelf-generation Applied From Starting Bank to On PeakQTY*T*0*KHSelf-generation Applied From Starting Bank to On PeakQTY*T*7*800*KHGeneration Transferred In – From ParentMEA*AF*PRQ*00*KH***43Self-generation Transferred In – From ParentMEA*AF*PRQ*00*KHGeneration Transferred In – From ParentMEA*AF*PRQ*00*KH***43Generation Transferred In – Intermediate PeakQTY*T*7*8*1400*KHGeneration Transferred OutMEA*AF*PRQ*00*KH***43Generation Transferred Out – Off PeakQTY*T*8*1400*KHGeneration Transferred OutMEA*AF*PRQ*100*KH***42Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferre	MEA*AA*PRQ*3000*KH*0*0*42	Total generation, with begin/end readings
PTD*BJGeneration Transferred LoopDTM*150*20160405Start periodDTM*151*20160504End periodQTY*QH*500*KHStarting BankMEA*AA*PRQ*500*KH***41Starting Bank – Off PeakQTY*QH*1000*KHStarting BankMEA*AA*PRQ*1000*KH***42Starting Bank – On PeakQTY*QH*800*KHStarting BankMEA*AA*PRQ*800*KH***43Starting Bank – Intermediate PeakQTY*QH*800*KHStarting Bank – Intermediate PeakQTY*Q*0*KHSelf-generation Applied From Starting BankMEA*AA*PRQ*800*KH***41Self-generation Applied From Starting Bank to Off PeakQTY*Q*0*KHSelf-generation Applied From Starting Bank to Onf PeakQTY*Q*0*KHSelf-generation Applied From Starting Bank to Onf PeakQTY*Q*0*KHGeneration Transferred In – From ParentMEA*AF*PRQ*0*KH***43Self-generation Applied From Starting Bank to Intermediate PeakQTY*T*7*200*KHGeneration Transferred In – Onf PeakQTY*T*7*200*KHGeneration Transferred In – From ParentMEA*AF*PRQ*00*KH***42Generation Transferred Out – Onf PeakQTY*T*8*1400*KHGeneration Transferred Out – Off PeakQTY*T*8*1400*KHGeneration Transferred Out – Off PeakQTY*7*8*1000*KHGeneration Transferred Out – On PeakQTY*7*8*1000*KHGeneration Transferred Out – On Peak <t< td=""><td>QTY*87*800*KH</td><td>Generation - Intermediate Peak</td></t<>	QTY*87*800*KH	Generation - Intermediate Peak
DTM*150*20160405Start periodDTM*151*20160504End periodQTY*QH*500*KHStarting BankMEA*AA*PRQ*500*KH***41Starting Bank – Off PeakQTY*QH*1000*KHStarting BankMEA*AA*PRQ*1000*KH***42Starting Bank – On PeakQTY*QH*800*KHStarting Bank – On PeakQTY*QH*800*KHStarting BankMEA*AA*PRQ*800*KH***43Starting Bank – Intermediate PeakQTY*P#0*0*KHSelf-generation Applied From Starting BankMEA*AA*PRQ*00*KH***41Self-generation Applied From Starting Bank to Off PeakQTY*P#0*0*KHSelf-generation Applied From Starting Bank to Onf PeakQTY*P#0*0*KHSelf-generation Applied From Starting Bank to On PeakQTY*P#0*KHSelf-generation Applied From Starting Bank to On PeakQTY*P#0*KHSelf-generation Applied From Starting Bank to On PeakQTY*P#0*KHSelf-generation Applied From Starting Bank to On PeakQTY*P#0*KHGeneration Transferred In – From ParentMEA*AF*PRQ*0*KH***42Generation Transferred In – Off PeakQTY*P#0*KHGeneration Transferred In – Off PeakQTY*P*17*200*KHGeneration Transferred In – Prom ParentMEA*AF*PRQ*200*KH***42Generation Transferred In – Prom ParentMEA*AF*PRQ*1400*KH***43Generation Transferred Out – Off PeakQTY*78*1400*KHGeneration Transferred Out – Off PeakQTY*78*1400*KHGeneration Transferred Out – Off PeakQTY*78*1000*KHGeneration Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred Out – On PeakQTY*78*1000	MEA*AA*PRQ*800*KH*0*0*43	Total generation, with begin/end readings
DTM*151*20160504End periodQTY*QH*500*KHStarting BankMEA*AA*PRQ*500*KH***41Starting Bank – Off PeakQTY*QH*1000*KHStarting BankMEA*AA*PRQ*1000*KH***42Starting Bank – On PeakQTY*QH*800*KHStarting BankMEA*AA*PRQ*800*KH***43Starting Bank – Intermediate PeakQTY*D*0*KHSelf-generation Applied From Starting BankMEA*AA*PRQ*0*KH***41Self-generation Applied From Starting BankQTY*D*0*KHSelf-generation Applied From Starting Bank to Off PeakQTY*D*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***42Self-generation Applied From Starting BankQTY*D*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***43Self-generation Applied From Starting Bank to On PeakQTY*D*0*KHSelf-generation Applied From Starting Bank to Intermediate PeakQTY*D*0*KHGeneration Transferred In – From ParentMEA*AF*PRQ*0*KH***43Generation Transferred In – Off PeakQTY*D*0*KHGeneration Transferred In – On PeakQTY*D*0*KHGeneration Transferred In – Intermediate PeakQTY*D*0*KHGeneration Transferred In – Intermediate PeakQTY*D*0*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***43Generation Transferred OutMEA*AF*PRQ*1400*KH***44Generation Transferred OutMEA*AF*PRQ*1400*KH***41Generation Transferred OutMEA*AF*PRQ*1400*KH***42Generation Transferred OutMEA*AF*PRQ*1400*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KHGenera	PTD*BJ	Generation Transferred Loop
QTY*QH*500*KHStarting BankMEA*AA*PRQ*500*KH***41Starting Bank - Off PeakQTY*QH*1000*KHStarting BankMEA*AA*PRQ*1000*KH***42Starting Bank - On PeakQTY*QH*800*KHStarting BankMEA*AA*PRQ*800*KH***43Starting Bank - Intermediate PeakQTY*gP0*800*KHSelf-generation Applied From Starting BankMEA*AA*PRQ*0*KH***41Self-generation Applied From Starting BankQTY*gP0*0*KHSelf-generation Applied From Starting Bank to Off PeakQTY*gP0*0*KHSelf-generation Applied From Starting Bank to On PeakQTY*gP0*0*KHSelf-generation Applied From Starting Bank to On PeakQTY*gP0*0*KHSelf-generation Applied From Starting Bank to On PeakQTY*gP0*0*KHSelf-generation Applied From Starting Bank to Intermediate PeakQTY*gP0*0*KHSelf-generation Applied From Starting Bank to Intermediate PeakQTY*gP0*0*KHGeneration Transferred In - From ParentMEA*AF*PRQ*00*KH***41Generation Transferred In - Off PeakQTY*g7*200*KHGeneration Transferred In - From ParentMEA*AF*PRQ*00*KH***42Generation Transferred In - Intermediate PeakQTY*g7*0*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***41Generation Transferred Out - Off PeakQTY*7*8*1400*KHGeneration Transferred Out - On PeakQTY*7*8*2700*KHGeneration Transferred Out - On PeakQTY*7*8*1000*KHGeneration Transferred Out - On PeakQTY*7*8*1000*KHGeneration Transferred Out - On PeakQTY*7*8*1000*KHGeneration Transferred Out - On Peak <t< td=""><td>DTM*150*20160405</td><td>Start period</td></t<>	DTM*150*20160405	Start period
MEA*AA*PRQ*500*KH***41Starting Bank – Off PeakQTY*QH*1000*KHStarting BankMEA*AA*PRQ*1000*KH***42Starting Bank – On PeakQTY*QH*800*KHStarting BankMEA*AA*PRQ*800*KH***43Starting Bank – Intermediate PeakQTY*T*Q*0*KHSelf-generation Applied From Starting BankMEA*AA*PRQ*00*KH***41Self-generation Applied From Starting BankQTY*T*0*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***42Self-generation Applied From Starting BankQTY*T*0*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***42Self-generation Applied From Starting BankQTY*T*0*0*KHSelf-generation Applied From Starting Bank to On PeakQTY*T*0*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***42Self-generation Applied From Starting Bank to Intermediate PeakQTY*T*0*0*KHGeneration Transferred In – From ParentMEA*AF*PRQ*800*KH***41Generation Transferred In – Off PeakQTY*T*T*0*KHGeneration Transferred In – On PeakQTY*T*T*1400*KH***43Generation Transferred In – Intermediate PeakQTY*T*8*1400*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***41Generation Transferred Out – On PeakQTY*T*8*2700*KHGeneration Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***43Genera	DTM*151*20160504	End period
QTY*QH*1000*KHStarting BankMEA*AA*PRQ*1000*KH***42Starting Bank – On PeakQTY*QH*800*KHStarting Bank – On PeakQTY*QH*800*KHStarting Bank – Intermediate PeakQTY*79*0*KHSelf-generation Applied From Starting BankMEA*AA*PRQ*0*KH***41Self-generation Applied From Starting BankQTY*79*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***42Self-generation Applied From Starting Bank to Off PeakQTY*79*0*KHSelf-generation Applied From Starting Bank to On PeakQTY*79*0*KHSelf-generation Applied From Starting Bank to On PeakQTY*79*0*KHSelf-generation Applied From Starting Bank to Intermediate PeakQTY*79*0*KHSelf-generation Applied From Starting Bank to Intermediate PeakQTY*77*80*KHGeneration Transferred In – From ParentMEA*AF*PRQ*800*KH***41Generation Transferred In – Off PeakQTY*77*200*KHGeneration Transferred In – On PeakQTY*77*0*KHGeneration Transferred In – From ParentMEA*AF*PRQ*00*KH***43Generation Transferred In – Intermediate PeakQTY*77*1400*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***41Generation Transferred OutMEA*AF*PRQ*1400*KH***42Generation Transferred OutMEA*AF*PRQ*2700*KHGeneration Transferred OutMEA*AF*PRQ*2700*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000	QTY* QH *500*KH	Starting Bank
MEA*AA*PRQ*1000*KH***42Starting Bank - On PeakQTY*QH*800*KHStarting Bank - Intermediate PeakQTY*QH*800*KHSelf-generation Applied From Starting BankMEA*AA*PRQ*00*KH***43Self-generation Applied From Starting BankMEA*AF*PRQ*0*KHSelf-generation Applied From Starting Bank to Off PeakQTY*Q*0*KHSelf-generation Applied From Starting Bank to Off PeakQTY*Q*0*KHSelf-generation Applied From Starting Bank to On PeakQTY*Q*0*KHSelf-generation Applied From Starting Bank to On PeakQTY*Q*0*KHSelf-generation Applied From Starting Bank to On PeakQTY*Q*0*KHSelf-generation Applied From Starting Bank to Intermediate PeakQTY*Q*0*KHSelf-generation Applied From Starting Bank to Intermediate PeakQTY*Q*0*KHGeneration Transferred In - From ParentMEA*AF*PRQ*800*KH***41Generation Transferred In - On PeakQTY*Q*1*2*0*KHGeneration Transferred In - On PeakQTY*1*1*200*KHGeneration Transferred In - From ParentMEA*AF*PRQ*00*KH***43Generation Transferred In - From ParentMEA*AF*PRQ*00*KH***44Generation Transferred Out - Off PeakQTY*7*8*1400*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***41Generation Transferred OutMEA*AF*PRQ*2700*KHGeneration Transferred Out - On PeakQTY*7*8*1000*KHGeneration Transferred Out - On PeakQTY*7*	MEA*AA*PRQ*500*KH***41	Starting Bank – Off Peak
QTY*QH*800*KHStarting BankMEA*AA*PRQ*800*KH***43Starting Bank – Intermediate PeakQTY*f9*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***41Self-generation Applied From Starting Bank to Off PeakQTY*f9*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***42Self-generation Applied From Starting Bank to On PeakQTY*f9*0*KHSelf-generation Applied From Starting Bank to Intermediate PeakQTY*f7*800*KHGeneration Transferred In – From ParentMEA*AF*PRQ*00*KH***41Generation Transferred In – Onf PeakQTY*f7*00*KHGeneration Transferred In – On PeakQTY*f7*0*KHGeneration Transferred In – From ParentMEA*AF*PRQ*00*KH***43Generation Transferred In – Intermediate PeakQTY*f7*0*KHGeneration Transferred In – On PeakQTY*f7*0*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***41Generation Transferred OutMEA*AF*PRQ*2700*KH***42Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***44Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***443Generation Transferred Out<	QTY* QH *1000*КН	Starting Bank
MEA*AA*PRQ*800*KH***43Starting Bank – Intermediate PeakQTY*72*0*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***41Self-generation Applied From Starting Bank to Off PeakQTY*72*0*0*KHSelf-generation Applied From Starting Bank to On PeakQTY*72*0*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***42Self-generation Applied From Starting BankQTY*72*0*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***43Self-generation Applied From Starting Bank to Intermediate PeakQTY*77*800*KHGeneration Transferred In – From ParentMEA*AF*PRQ*00*KH***41Generation Transferred In – Onf PeakQTY*77*200*KHGeneration Transferred In – On PeakQTY*77*0*KHGeneration Transferred In – From ParentMEA*AF*PRQ*00*KH***43Generation Transferred In – Intermediate PeakQTY*77*0*KHGeneration Transferred In – Intermediate PeakQTY*77*140*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***41Generation Transferred OutMEA*AF*PRQ*2700*KH***42Generation Transferred OutMEA*AF*PRQ*2700*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***44Generation Transferred OutMEA*AF*PRQ*000*KH***43Generation Transferred OutMEA*AF*PRQ*000*KH***44Generation Transferred Out	MEA*AA*PRQ*1000*KH***42	Starting Bank – On Peak
QTY*79*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***41Self-generation Applied From Starting Bank to OIF PeakQTY*79*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***42Self-generation Applied From Starting Bank to On PeakQTY*79*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***42Self-generation Applied From Starting BankQTY*79*0*KHSelf-generation Applied From Starting Bank to Intermediate PeakQTY*79*0*KHSelf-generation Applied From Starting Bank to Intermediate PeakQTY*79*0*KHGeneration Transferred In – From ParentMEA*AF*PRQ*800*KH***41Generation Transferred In – Off PeakQTY*77*200*KHGeneration Transferred In – On PeakQTY*77*0*KHGeneration Transferred In – On PeakQTY*77*0*KHGeneration Transferred In – Intermediate PeakQTY*78*1400*KHGeneration Transferred OutMEA*AF*PRQ*100*KH***41Generation Transferred Out – Off PeakQTY*78*2700*KHGeneration Transferred OutMEA*AF*PRQ*200*KH***42Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*200*KH***44Generation Transferred OutMEA*AF*PRQ*200*KHGeneration Transferred OutMEA*AF*PRQ*200*KHGeneration Transferred OutMEA*AF*PRQ*200*KHGeneration Transferred OutMEA*AF*PRQ*200*KHGeneration Transferred OutMEA*AF*PRQ*1000*KHGeneration Transferred OutMEA*AF*PRQ*1000*KHGeneration Transferred OutMEA*AF*PRQ*1000*KH <td>QTY*QH*800*KH</td> <td>Starting Bank</td>	QTY* QH *800*KH	Starting Bank
MEA*AF*PRQ*0*KH***41Self-generation Applied From Starting Bank to Off PeakQTY*79*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***42Self-generation Applied From Starting BankQTY*79*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***43Self-generation Applied From Starting Bank to Intermediate PeakQTY*79*0*KHGeneration Transferred In – From ParentMEA*AF*PRQ*800*KH***41Generation Transferred In – Off PeakQTY*77*200*KHGeneration Transferred In – Off PeakQTY*77*0*KHGeneration Transferred In – On PeakQTY*77*0*KHGeneration Transferred In – From ParentMEA*AF*PRQ*200*KH***43Generation Transferred In – Intermediate PeakQTY*77*0*KHGeneration Transferred In – On PeakQTY*77*10*KHGeneration Transferred In – On PeakQTY*78*1400*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***43Generation Transferred Out – Off PeakQTY*78*1400*KHGeneration Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KHGeneration Transferred OutMEA*AF*PRQ*1000*KHGeneration Transferred OutMEA*AF*PRQ*1000*KHGeneration Transferred OutMEA*AF*PRQ*1000*KHGeneration Transferred OutMEA*AF*PRQ*1000*KHGeneration Transferred OutMEA*AF*PRQ*1000*KHGeneration Transferred O	MEA*AA*PRQ*800*KH***43	Starting Bank – Intermediate Peak
MEA*AF*PRQ*0*KHPeakQTY*79*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***42Self-generation Applied From Starting Bank to On PeakQTY*79*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***43Self-generation Applied From Starting Bank to Intermediate PeakQTY*77*800*KHGeneration Transferred In – From ParentMEA*AF*PRQ*00*KH***41Generation Transferred In – Off PeakQTY*77*200*KHGeneration Transferred In – From ParentMEA*AF*PRQ*200*KH***42Generation Transferred In – On PeakQTY*77*0*KHGeneration Transferred In – Prom ParentMEA*AF*PRQ*00*KH***43Generation Transferred In – Intermediate PeakQTY*77*1*0*KHGeneration Transferred In – Intermediate PeakQTY*77*1*0*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***41Generation Transferred Out – Off PeakQTY*78*1400*KHGeneration Transferred Out – Off PeakQTY*78*1000*KHGeneration Transferred Out – On PeakQTY*QE*0*KHGeneration Transferred Out – Intermediate Peak	QTY* <mark>79</mark> *0*KH	
MEA*AF*PRQ*0*KH***42Self-generation Applied From Starting Bank to On PeakQTY*79*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***43Self-generation Applied From Starting Bank to Intermediate PeakQTY*77*800*KHGeneration Transferred In – From ParentMEA*AF*PRQ*800*KH***41Generation Transferred In – Off PeakQTY*77*200*KHGeneration Transferred In – From ParentMEA*AF*PRQ*200*KH***42Generation Transferred In – On PeakQTY*77*0*KHGeneration Transferred In – From ParentMEA*AF*PRQ*00*KH***43Generation Transferred In – From ParentMEA*AF*PRQ*00*KH***44Generation Transferred In – Intermediate PeakQTY*78*1400*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***41Generation Transferred Out – Off PeakQTY*78*2700*KHGeneration Transferred Out – Off PeakQTY*78*2700*KHGeneration Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred Out – On PeakQTY*28*000*KHGeneration Transferred Out – On PeakQTY*28*000*KHGeneration Transferred Out – Intermediate PeakQTY*28*000*KHEnding Bank	MEA*AF*PRQ*0*KH***41	
MEA/AF*PRQ*0*KH***42PeakQTY*79*0*KHSelf-generation Applied From Starting BankMEA*AF*PRQ*0*KH***43Self-generation Applied From Starting Bank to Intermediate PeakQTY*77*800*KHGeneration Transferred In – From ParentMEA*AF*PRQ*800*KH***41Generation Transferred In – Off PeakQTY*77*200*KHGeneration Transferred In – From ParentMEA*AF*PRQ*00*KH***42Generation Transferred In – On PeakQTY*77*0*KHGeneration Transferred In – On PeakQTY*78*1400*KHGeneration Transferred In – Intermediate PeakQTY*78*1400*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***41Generation Transferred OutMEA*AF*PRQ*1400*KH***42Generation Transferred OutMEA*AF*PRQ*1400*KH***43Generation Transferred OutQTY*78*2700*KHGeneration Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KHGeneration Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***44Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred Out – Intermediate PeakQTY*QE*0*KHEnding Bank	QTY* <mark>79</mark> *0*KH	
MEA*AF*PRQ*0*KH***43Self-generation Applied From Starting Bank to Intermediate PeakQTY**7*800*KHGeneration Transferred In – From ParentMEA*AF*PRQ*800*KH***41Generation Transferred In – Off PeakQTY**7*200*KHGeneration Transferred In – From ParentMEA*AF*PRQ*200*KH***42Generation Transferred In – On PeakQTY**7*0*KHGeneration Transferred In – On PeakQTY**7*0*KHGeneration Transferred In – From ParentMEA*AF*PRQ*0*KH***43Generation Transferred In – Intermediate PeakQTY*7*8*1400*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***41Generation Transferred Out – Off PeakQTY*7*8*2700*KHGeneration Transferred Out – Off PeakQTY*7*8*1000*KHGeneration Transferred Out – On PeakQTY*7*0**KHGeneration Transferred Out – On PeakQTY*7*8*1000*KHGeneration Transferred Out – On PeakQTY*7*8*1000*KHGeneration Transferred Out – Intermediate PeakQTY*2*0**KHEnding Bank	MEA*AF*PRQ*0*KH***42	
MEA*AF*PRQ*00*KH***43Intermediate PeakQTY*7*800*KHGeneration Transferred In – From ParentMEA*AF*PRQ*800*KH***41Generation Transferred In – Off PeakQTY*7*200*KHGeneration Transferred In – From ParentMEA*AF*PRQ*200*KH***42Generation Transferred In – On PeakQTY*7*0*KHGeneration Transferred In – From ParentMEA*AF*PRQ*00*KH***43Generation Transferred In – From ParentMEA*AF*PRQ*0*KH***43Generation Transferred In – Intermediate PeakQTY*7*7*1400*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***41Generation Transferred Out – Off PeakQTY*7*8*2700*KHGeneration Transferred Out – On PeakQTY*7*8*1000*KHGeneration Transferred Out – On PeakQTY*7*8*1000*KHGeneration Transferred Out – On PeakQTY*7*8*1000*KHGeneration Transferred Out – On PeakQTY*7*0*KHGeneration Transferred Out – On PeakQTY*7*8*1000*KHGeneration Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred Out – Intermediate PeakQTY*00*KHEnding Bank	QTY* <mark>79</mark> *0*KH	
MEA*AF*PRQ*800*KH***41Generation Transferred In – Off PeakQTY**7*200*KHGeneration Transferred In – From ParentMEA*AF*PRQ*200*KH***42Generation Transferred In – On PeakQTY**7*0*KHGeneration Transferred In – From ParentMEA*AF*PRQ*0*KH***43Generation Transferred In – Intermediate PeakQTY*78*1400*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***41Generation Transferred Out – Off PeakQTY*78*2700*KHGeneration Transferred Out – Off PeakQTY*78*2700*KHGeneration Transferred Out – Off PeakQTY*78*1000*KHGeneration Transferred Out – On PeakQTY*00*KHGeneration Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred Out – On PeakQTY*00*KHGeneration Transferred Out – On PeakMEA*AF*PRQ*1000*KH***43Generation Transferred Out – On PeakMEA*AF*PRQ*1000*KH***43Generation Transferred Out – Intermediate PeakQTY*00*KHEnding Bank	MEA*AF*PRQ*0*KH***43	
QTY*7*200*KHGeneration Transferred In – From ParentMEA*AF*PRQ*200*KH***42Generation Transferred In – On PeakQTY*77*0*KHGeneration Transferred In – From ParentMEA*AF*PRQ*0*KH***43Generation Transferred In – Intermediate PeakQTY*78*1400*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***41Generation Transferred Out – Off PeakQTY*78*2700*KHGeneration Transferred Out – Off PeakQTY*78*2700*KHGeneration Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred Out – On PeakQTY*0*KHGeneration Transferred Out – On PeakMEA*AF*PRQ*1000*KH**43Generation Transferred Out – On PeakMEA*AF*PRQ*1000*KH**43Generation Transferred Out – Intermediate PeakQTY*QE*0*KHEnding Bank	QTY* <mark>7</mark> 7*800*KH	Generation Transferred In – From Parent
MEA*AF*PRQ*200*KH***42Generation Transferred In – On PeakQTY*7*0*KHGeneration Transferred In – From ParentMEA*AF*PRQ*0*KH***43Generation Transferred In – Intermediate PeakQTY*78*1400*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***41Generation Transferred Out – Off PeakQTY*78*2700*KHGeneration Transferred Out – Off PeakQTY*78*2700*KHGeneration Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred Out – On PeakQTY*QE*0*KHEnding Bank	MEA*AF*PRQ*800*KH***41	Generation Transferred In – Off Peak
QTY*7*0*KHGeneration Transferred In – From ParentMEA*AF*PRQ*0*KH***43Generation Transferred In – Intermediate PeakQTY*78*1400*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***41Generation Transferred Out – Off PeakQTY*78*2700*KHGeneration Transferred Out – Off PeakQTY*78*2700*KHGeneration Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred Out – Intermediate PeakQTY*08*000*KHGeneration Transferred Out – Intermediate PeakQTY*QE*0*KHEnding Bank	QTY* <mark>7</mark> 7*200*KH	Generation Transferred In – From Parent
MEA*AF*PRQ*0*KH***43Generation Transferred In – Intermediate PeakQTY*78*1400*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***41Generation Transferred Out – Off PeakQTY*78*2700*KHGeneration Transferred OutMEA*AF*PRQ*2700*KHGeneration Transferred OutMEA*AF*PRQ*2700*KH***42Generation Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred OutMEA*AF*PRQ*1000*KHGeneration Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred Out – Intermediate PeakQTY*QE*0*KHEnding Bank	MEA*AF*PRQ*200*KH***42	Generation Transferred In – On Peak
QTY*78*1400*KHGeneration Transferred OutMEA*AF*PRQ*1400*KH***41Generation Transferred Out – Off PeakQTY*78*2700*KHGeneration Transferred OutMEA*AF*PRQ*2700*KH***42Generation Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred Out – Intermediate PeakQTY*QE*0*KHEnding Bank	QTY* <mark>7</mark> 7*0*KH	Generation Transferred In – From Parent
MEA*AF*PRQ*1400*KH***41Generation Transferred Out – Off PeakQTY*78*2700*KHGeneration Transferred OutMEA*AF*PRQ*2700*KH***42Generation Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred Out – Intermediate PeakQTY*QE*0*KHEnding Bank	MEA*AF*PRQ*0*KH***43	Generation Transferred In – Intermediate Peak
QTY*78*2700*KHGeneration Transferred OutMEA*AF*PRQ*2700*KH***42Generation Transferred Out – On PeakQTY*78*1000*KHGeneration Transferred OutMEA*AF*PRQ*1000*KH***43Generation Transferred Out – Intermediate PeakQTY*QE*0*KHEnding Bank	QTY* <mark>78</mark> *1400*KH	Generation Transferred Out
MEA*AF*PRQ*2700*KH***42 Generation Transferred Out – On Peak QTY*78*1000*KH Generation Transferred Out MEA*AF*PRQ*1000*KH***43 Generation Transferred Out – Intermediate Peak QTY*QE*0*KH Ending Bank	MEA*AF*PRQ*1400*KH***41	Generation Transferred Out – Off Peak
QTY*78*1000*KH Generation Transferred Out MEA*AF*PRQ*1000*KH***43 Generation Transferred Out – Intermediate Peak QTY*QE*0*KH Ending Bank	QTY* 78 *2700*KH	Generation Transferred Out
MEA*AF*PRQ*1000*KH***43 Generation Transferred Out – Intermediate Peak QTY*QE*0*KH Ending Bank	MEA*AF*PRQ*2700*KH***42	Generation Transferred Out – On Peak
QTY*QE*0*KH Ending Bank	QTY*78*1000*KH	Generation Transferred Out
	MEA*AF*PRQ*1000*KH***43	Generation Transferred Out – Intermediate Peak
MEA*AA*PRQ*0*KH***41 Ending Bank – Off Peak	QTY*QE*0*KH	Ending Bank
	MEA*AA*PRQ*0*KH***41	Ending Bank – Off Peak

QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AA*PRQ*0*KH***42	Ending Bank – On Peak
QTY*QE*0*KH	Ending Bank
MEA*AA*PRQ*0*KH***43	Ending Bank – Intermediate Peak

Parent #1 (TOU w/Net Meter)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*300*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*400*KH	Consumption - Off Peak
MEA*AA*PRQ*400*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*900*KH	Consumption - On Peak
MEA*AA*PRQ*900*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*600*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*600*KH*0*0*43	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*300*KH	Generation - Off Peak
MEA*AA*PRQ*300*KH*0*0*41	Total generation, with begin/end readings
QTY*87*1100*KH	Generation - On Peak
MEA*AA*PRQ*1100*KH*0*0*42	Total generation, with begin/end readings

QTY*87*400*KH	Generation - Intermediate Peak
MEA*AA*PRQ*400*KH*0*0*43	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* <mark>77</mark> *100*KH	Generation Transferred In - From ParentHost
MEA*AF*PRQ*100*KH***41	Generation Transferred In – Off Peak
QTY* <mark>77</mark> *0*KH	Generation Transferred In - From ParentHost
MEA*AF*PRQ*0*KH***42	Generation Transferred In – On Peak
QTY* <mark>77</mark> *200*KH	Generation Transferred In - From ParentHost
MEA*AF*PRQ*200*KH***43	Generation Transferred In – Intermediate Peak
QTY* <mark>78</mark> *0*KH	Generation Transferred Out - To ParentHost
MEA*AF*PRQ*0*KH***41	Generation Transferred Out – Off Peak
QTY* <mark>78</mark> *200*KH	Generation Transferred Out - To ParentHost
MEA*AF*PRQ*200*KH***42	Generation Transferred Out – On Peak
QTY* <mark>78</mark> *0*KH	Generation Transferred Out - To ParentHost
MEA*AF*PRQ*0*KH***43	Generation Transferred Out - Intermediate Peak

Parent #2 (non-TOU w/Net Meter)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*87*800*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*500*KH	Consumption - Totalized
MEA*AA*PRQ*500*KH*0*0*51	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period

REF*MG*1111111	Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*1300*KH	Generation - Totalized
MEA*AA*PRQ*300*KH*0*0*51	Total generation, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* <mark>7</mark> 7*800*KH	Generation Transferred In – From ParentHost
MEA*AF*PRQ*800*KH***51	Generation Transferred Out - Totalized
QTY* <mark>78</mark> *800*KH	Generation Transferred Out - To ParentHost
MEA*AF*PRQ*800*KH***51	Generation Transferred Out – Totalized

Child #1 (TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*2600*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*800*KH	Consumption - Off Peak
MEA*AA*PRQ*800*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*1000*KH	Consumption - On Peak
MEA*AA*PRQ*1000*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*800*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*800*KH*0*0*43	Total consumption, with begin/end readings

PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* 77 *800*KH	Generation Transferred In
MEA*AF*PRQ*800*KH***41	Generation Transferred In – Off Peak
QTY*77*1000*KH	Generation Transferred In
MEA*AF*PRQ*1000*KH***42	Generation Transferred In – On Peak
QTY* 77 *800*KH	Generation Transferred In
MEA*AF*PRQ*800*KH***43	Generation Transferred In – Intermediate Peak

Child #2 (Non-TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*1800*KH	Monthly billed KH
PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*QD*4000*KH	Measured Net Consumption
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*1111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*400*KH	Consumption
MEA*AA*PRQ*400*KH*20000*20810*51	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* 77 *2200*KH	Generation Transferred In
MEA*AF*PRQ*2200*KH***51	Generation Transferred In – Total Non TOU

PHI/PE Scenario G - ParentHost True-up Event. Host has excess generation and needs a True-up. (Showing ParentHost accounts only)

Parent Host Account – True Up Event

Starting Bank = -1200 kWh Off Peak -300 kWh On Peak -500 kWh Int Peak -400 kWh

Current usage for 04/05/16 to 05/04/16 = -225 kWh, 0 kWh Billed Off Peak -50 kWh On Peak -100 kWh Int Peak -75 kWh

Excess generation for family = -1425 kWh -350 kWh from Off Peak -600 kWh from On Peak -475 kWh from Int Peak

Transferred Out = -700 kWh -200 kWh from Off Peak -300 kWh from On Peak -200 kWh from Int Peak

True-Up amounts for Host (cashed out to customer) = -725 kWh Off Peak -150 kWh On Peak -300 kWh Int Peak -275 kWh

Ending Bank = 0 kWh Off Peak 0 kWh On Peak 0 kWh Int Peak 0 kWh

Notes:

- 1. Applies TOU generation using the "waterfall" method. Off Peak to Off Peak, On Peak to On Peak & Intermediate Peak to Intermediate Peak.
- 2. For TOU Parent, excess generation from an individual peak period transfers to ParentHost's available generation.
- 3. During True-Up for TOU, if one TOU peak contains excess generation passed in QTY*QB, all TOU peaks must be sent even when 0 kWh.
- 4. During True-Up event, if there is nothing to True-up, the QTY*QB will NOT be sent.

Proposed EDI Transactions

Parent Account (Net Meter TOU)

PTD*BB	Monthly Billed Summary Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*D1*0*KH	Monthly billed KH

PTD*SU	Metered services Summary loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY*87*225*KH	Calculated net KH
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*11111111	Meter Number
REF*JH*A	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*QD*300*KH	Consumption - Off Peak
MEA*AA*PRQ*300*KH*0*0*41	Total consumption, with begin/end readings
QTY*QD*1000*KH	Consumption - On Peak
MEA*AA*PRQ*1000*KH*0*0*42	Total consumption, with begin/end readings
QTY*QD*275*KH	Consumption - Intermediate Peak
MEA*AA*PRQ*275*KH*0*0*43	Total consumption, with begin/end readings
PTD*PM	Meter detail loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
REF*MG*11111111	Meter Number
REF*JH*S	Meter Role
REF*IX*5.0	Number of dials or digits
QTY*87*350*KH	Generation - Off Peak
MEA*AA*PRQ*350*KH*0*0*41	Total generation, with begin/end readings
QTY*87*1100*KH	Generation - On Peak
MEA*AA*PRQ*1100*KH*0*0*42	Total consumption, with begin/end readings
QTY*87*350*KH	Generation - Intermediate Peak
MEA*AA*PRQ*350*KH*0*0*43	Total consumption, with begin/end readings
PTD*BJ	Generation Transferred Loop
DTM*150*20160405	Start period
DTM*151*20160504	End period
QTY* QH *300*KH	Starting Bank
MEA*AA*PRQ*300*KH***41	Starting Bank – Off Peak
QTY* <mark>QH</mark> *500*KH	Starting Bank
MEA*AA*PRQ*500*KH***42	Starting Bank – On Peak
QTY* <mark>QH</mark> *400*KH	Starting Bank
MEA*AA*PRQ*400*KH***43	Starting Bank – Intermediate Peak
QTY* 79 *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***41	Self-generation Applied From Starting Bank to Off Peak

867 Monthly Usage (4010)

IG867MUv6-7.docxx

MEA*AF*PRQ*0*KH***42	Self-generation Applied From Starting Bank to On Peak
QTY* 79 *0*KH	Self-generation Applied From Starting Bank
MEA*AF*PRQ*0*KH***43	Self-generation Applied From Starting Bank to Intermediate Peak
QTY*78*200*KH	Generation Transferred Out
MEA*AF*PRQ*200*KH***41	Generation Transferred Out – Off Peak
QTY* <mark>78</mark> *300*KH	Generation Transferred Out
MEA*AF*PRQ*300*KH***42	Generation Transferred Out – On Peak
QTY* <mark>78</mark> *200*KH	Generation Transferred Out
MEA*AF*PRQ*200*KH***43	Generation Transferred Out – Intermediate Peak
QTY*QB*150*KH	True-Up
MEA*AF*PRQ*150*KH***41	True-Up – Off Peak
QTY*QB*300*KH	True-Up
MEA*AF*PRQ*300*KH***42	True-Up – On Peak
QTY*QB*275*KH	True-Up
MEA*AF*PRQ*275*KH***43	True-Up – Intermediate Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AA*PRQ*0*KH***41	Ending Bank – Off Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AA*PRQ*0*KH***42	Ending Bank – On Peak
QTY* <mark>QE</mark> *0*KH	Ending Bank
MEA*AA*PRQ*0*KH***43	Ending Bank – Intermediate Peak