

Scenario: Customer with One Meter that measures Consumption and Generation

- Starting Bank 842 kWh
- Consumption 300 kWh
- Generation 126 kWh
- Applied from Starting Bank 174 kWh
- Ending Bank 668 kWh

Blue are proposed additions to the 867 to provide metering details in a way for the supplier to be fully aware of the kWh that is being provided by the utilities.

*From 867 Implementation Guide Notes: Metered consumption data is sent in the **PTD*BO** loop (Metered Consumption Summary) if the data from all meters on an account is being summarized or in the **PTD*BQ** loop (Metered Consumption Detail) when the data is being sent by individual meter. Meter reading data by meter is sent in the **PTD*PM** loop. Un-metered consumption is sent in the **PTD*BC**.*

ST*867*000000001~
 BPT*00*20060702NYSG_ACT_CONS*20060717*DD~
 N1*SJ*ESCO NAME*1*006983564~
 N1*8S*UTILITY NAME*1*006977763~
 N1*8R*CUSTOMER NAME~
 N3*1234 MAIN ST
 N4*YONKERS*NY*10701
 REF*12*UTILITYACCTNBR~
 REF*BLT*(ESP/LDC/DUAL)~

PTD*BB~ ← Billed Summary Loop shows kWh billed by the utility to the customer factoring in banked excess generation applied, etc.
 DTM*150*20060501~
 DTM*151*20060601~
 QTY~D1~0~KH~

PTD*SU~ ← Measured Summary Loop shows the total kWh measured for both consumption and generation at the account level.
 DTM*150*20060501~
 DTM*151*20060601~
 QTY*QD*300~KH|
 QTY~87~126~KH|

PTD*BJ~ ← This loop is used only when an account has net metering or generation applied from or to other accounts

DTM*150*20191103~
 DTM*151*20191203~
 QTY*QH*6842*KH~ ← Starting Bank of 842

MEA*AF*PRQ*842*KH*0*842*51~
 QTY*QE*668*KH~ ← Ending Bank of 668

MEA*AF*PRQ*668*KH*0*668*51~
 QTY*79*174*KH~ ← 174 kWh applied from Starting Bank
 MEA*AF*PRQ*174*KH*0*174*51~

PTD*BQ***OZ*EL~ ← Might be able to eliminate the BQ Loop and replace with PM Loop
 DTM*150*20060501~ ← Dates are moved to the top and not repeated with every QTY
 DTM*151*20060601~

REF*MG*123456LG
 REF*NH*1150100~
 REF*PR*CONDITIONAL
~~QTY*FL*1~~~
 QTY*QD*300*KH~ ← Consumption
 MEA*AN*PRQ*300*KH***51~

~~DTM*150*20060501~~~
~~DTM*151*20060601~~~
~~QTY*FL*1~~~
 QTY*87*126*KH~ ← Generation
 MEA*AN*PRQ*126*KH***51~

~~DTM*150*20060501~~~
~~DTM*151*20060601~~~
~~QTY*FL*1~~~
 QTY*QD*6*K1~ ← Demand
 MEA*AN*PRQ*6*K1***51

~~DTM*150*20060501~~~
~~DTM*151*20060601~~~
 PTD*PM***OZ*EL~
 DTM*150*20060501~
 DTM*151*20060601~
 REF*MG*123456LG~

REF*NH*1150100~
 REF*IX*5.0~
 REF*JH*A~
 QTY*QD*300*KH~
 MEA*AA*PRQ*300*KH*50000*50300*51~
 MEA**MU*1~
 —DTM*150*20060501~
 —DTM*151*20060601~
 PTD*PM***OZ*EL~
 DTM*150*20060501~
 DTM*151*20060601~
 REF*MG*123456LG~
 REF*IX*5.0~
 REF*JH*S~
 QTY*87*126*KH~
 MEA*AA*PRQ*126*KH*1000*1126*51~ ← Meter Reads may be forward or backward depending on the meter
 MEA**MU*1
 —DTM*150*20060501~
 —DTM*151*20060601~
 SE*50*00000001~

Electric Utility Questions:

- Do you apply any factors such as a Power Factor or Transformer Loss Factor, to the difference in meter reads before sending the usage to the suppliers today?
- Do you have Time of Use Reads, and if so what Peaks?
- Would unmetered services (PTD*BC loop) be sent on separate 867_03? Or a part of same transaction when account is billed?
- Would customers ever have generation from one account be applied to another account of the same customers? Remote Net metering? If yes, would need additional segments to the PTD*BJ loop for generation in/out.
- Is excess generation for a time of use customer banked at an account level, or for each time of use level?

Gas Utility Questions:

- Are your meter reads in CCF or Therms?
 - If CCF and the utility bills in Therms, a conversion factor would be needed.
- Can utilities confirm what UOM they bill in?
- Are all UOM for the meter readings taken in CCF?
- If billed in Therms what is the conversion factor applied?
- Are there any other calculations that take place to determine billing UOM (i.e. PSEG-Pressure Factor)?

Utility	Commodity	Billing UOM	UOM Meter Reads	Would need Conversion Factor
Central Hudson	Gas	CCF		
ConEd	Gas	Therms		
National Grid				
Downstate	Gas	Therms		
National Grid Upstate	Gas	Therms		
NFG	Gas	CCF		
NYSEG	Gas	Therms		
O&R	Gas	CCF		
RG&E	Gas	Therms		

For next time we can discuss changes to an Unmetered Services 867 Monthly Usage

ST*867*0001
BPT*00*2020022018214689999900MU*20200221*DD
DTM*634*20200319
N1*SJ*SUPPLIER*1*111111111
N1*8S*ORANGE AND ROCKLAND UTILITIES, INC.*1*006993406
N1*8R*CUSTOMER NAME
REF*11*111111
REF*12*9527499999*U
PTD*BB
DTM*150*20200122
DTM*151*20200220
QTY*D1*422*KH
PTD*BC***OZ*EL
REF*NH*X2J
QTY*FL*1
MEA*AN*PRQ*422*KH
DTM*150*20200122
DTM*151*20200220
SE*19*0001